MRITUNJOY DAS | JOEY DASH | LinkedIn | Github

EDUCATIONAL QUALIFICATIONS

Program	Institution/School	Year of completion
B.Tech + M.Tech, Aerospace Engineering	IIT, Madras	2021
Class XII (CBSE)	Sri Chaitanya	2016
Class X (ICSE)	Saint Joseph's School	2014

ACHIEVEMENTS

- Won 2nd prize and special prize in IAAA rocket-making championship and was recorded in **India Book of Records**. (15th Aug 2017)
- Among the top 10 who qualified IITMAA ML hackathon out of 500+ Indian teams. (21 Aug 2019)
- Selected for the regional level of the **Boeing University Innovation Leadership Program**. (5th Aug - 9th Aug 2019)
- Represented IIT Madras for Inter-IIT Techmeet for two consecutive years. (**2017** and **2018**)
- My startup, Subspace, excelled: silver in Inter-IIT, 1st in startup bootcamp & pitch-perfect, and more. (**20**22 and **20**23)
- Closed 4th position at Techsoc **Drone Delivery Challenge** out of 18 teams from IIT Madras. (2019)

GROWTH AND ENTREPRENEURSHIP

Vocallabs AI — *Jan'25-Present*

- Co-founded Vocallabs AI: multilingual, hyper-personalized voice AI agents and white-label voice infrastructure for enterprises.
- Built a proprietary in-house stack: **Crisp** speech engine (TTS + ASR API), **NoDues** collection-decisioning model, and an agent-orchestration layer, so BFSI clients keep models and call data in-house.
- Ran Bengaluru property-tax collection campaigns: **4.54 lakh calls across 64 wards**, **26,962 owners** committed to pay.
- Co-built a unified Go backend that powers Vocallabs, Subspace, EazyReach (B2B data enrichment), and Karlo (team workspace & HR).
- Integrated **SIP trunking** and **WhatsApp Calling** so voice agents reach customers over phone lines and WhatsApp.
- Named **Strategic AI Partner** of Bharat1.ai for the AI & Robotics Pavilion at **Bengaluru Tech Summit 2026**; showcased at Bajaj Finserv's AI Fest and featured in the Times of India.

Subspace — *Jul'23-Dec'24*

- Founded India's first group-focused neo-bank, addressing financial hurdles among young professionals and facilitating seamless group payments.
- Achieved rapid scaling to over **400,000 users within 12 months**, with a strong monthly active user base exceeding 40,000.
- Generated an impressive revenue of over ₹310 million+ (₹31 crore+) in the same timeframe, all achieved with minimal expenditure on marketing.
- Achieved recognition in India's **top 100 Apps of Google's Appscale Academy 2023** and was selected for prestigious programs such as Razorpay Rize, Nirmaan IIT Madras, and many more.
- Shipped group expense tracking, bill splitting, shared subscriptions, group savings, wallet, gift cards, and BBPS bill payments.
- Processed **₹100 crore+ in gross transaction value (GTV)** within the first year of launch.
- Built the **Flutter** app (Android, iOS, Web) and **Node.js** services, deployed on **Kubernetes**.

Grow90 — *Apr'20-Jul'21*

- Founded a **non-profit data-driven consulting** community and provided services to startups, industries, and MSMEs
- Impacted more than **10,000 students** by providing them free courses, boot camps, and webinars on ML, DL, CP, SD, etc.
- Managed **1500 developers** and provided them with a platform to work on different projects across various domains
- Created a flexible E-commerce module Accomox, which got selected for a pre-incubation **Cohort of Nirmaan IITM**
- **S**trategist, the growth of a UAE-based educational startup, **Duke University,** helped improve their brand identity.
- **U**sing **2 million users'** data, we helped many startups and MSMEs grow, like Techtable, Edar Labs, Neekorydes, etc.
- Developed an online grocery shopping platform for the delivery of groceries in rural parts of India and onboarded stores

Embibe, Jio — *Apr'18-Mar'18*

- M**anaged** and trained **1000+ engineering students from colleges across India** and helped students earn and learn from content management.
- Generated Lakhs of revenue and helped them in improving the infrastructure of our Grow90 community of students

POSITIONS OF RESPONSIBILITY

Core | Saarang 2019 | IITM — *Mar'18-Mar'19*

- Part of a 28-member core team or steering committee responsible for conducting Saarang and **managing 450 student coordinators**, India's biggest ISO certified entirely student-run cultural festival with a **footfall of more than 70,000+** and a budget INR 2Cr.
- Launched the first QR-coded ticket entry system for **8,000+ students** by eliminating physical tickets and reduced the team workload by 50%
- Led a team of coordinators divided into **three verticals (Web, Android, and iOS Hybrid app)** for developing the Saarang website, Android app, portals iOS app, and many other subdomains and implemented **QR-coded tickets** for everyone by introducing **online ticket sales** on the Saarang domain.

Moderator | E-cell | IITM — *Apr'18-Mar'19*

- Led a team of 8 developers at E Cell, a non-profit organization at IIT Madras, to create a portal for the Internship Fair.
- Catered to nearly 3,000 IIT students seeking internships to foster entrepreneurship among young minds.

Coordinator | Institute Mop Ops Team | IITM — *Apr'17-Mar'18*

- Managed a team of 3 developers and developed an app for **Unnat Bharat Abhiyan** Project, a collaborative project from the **Ministry of Human Resource Development, IIT Madras, and IIT Delhi** aimed at **taking surveys of millions of villagers and analyzing their data**
- Managed a group of developers and worked on updating the features of the student's app used by the students of IIT Madras and IIT Delhi

Coordinator | Institute Web Ops Team | IITM *Apr'17-Mar'18*

- Developed **multi video conferencing portal** for all the institute students for doing high-speed multi-video conferencing using the intranet of IIT

PROFESSIONAL EXPERIENCE

Societe Generale, Bangalore (Got PPO) **(Jul'21-Jul'23)**

- Developed a Business Rules Management System (BRMS) capable of certifying over a million trades daily while effectively mitigating risks in real-time
- Developed an in-house tool that enables real-time data replication for databases and data warehouses, resulting in an impressive 80% reduction in NRT time.
- Designed **Spring**-based tools for the Oval project that help investors verify and certify valuations.

Internship, Fleek Technologies, Bangalore (Got PPO) **(May'20-Jul'20)**

- Created a highly efficient message parser capable of extracting expense information from users' messages and emails in near real-time.
- Built a Django-based MVP from the ground up and assisted the company in securing a $2.5 million funding round.

Internship, Societe Generale, Bangalore (Got PPO) **(May'20-Jul'20)**

Usage Analytics	• Used **Grafana** to analyze API usage in real-time data and tagged customers according to their use of the API
Quick FIX Migration	• Handled **high-frequency data** received using the FIX protocol and parsed **446 tags** and **three different types** of messages.

Deep Learning Internship, ISRO (NESAC), Shillong **(Dec'19-Jan'20)**

Object Tracking	• Worked on setting up **NVIDIA JETSON TX2** using **jetpack 4.2.2** and building the required environment • Implemented **siam mask** model and **yolov3** model using TensorFlow 2.0 and made it compatible for an **arm processor** • Optimized object Tracking and Recognition for Nvidia Jetson TX2 with **real-time onboard data processing** in a drone

Data Science Internship, Gramophone, Bangalore (Got PPO) **(May'19-Jul'19)**

Field Staff Performance	• Increased efficiency of the current **supply chain** by tracking the real-time location of all the Field staff of the company • Stored terabytes of real-time location data into Google's BQ and used it to tag the field staff's behavior. • Assigned them a **field staff performance index,** which helped in Ranking and sorting out the **most useful field staffs**
Block Supply Chain	• Used **Ethereum solidity,** decentralized the current supply chain management system into a **blockchain**-based system. • Changed several modules of the current **ERP system** and increased the transparency and security of the supply chain

Robotics Internship, Detect Technologies, Chennai **(Nov'18-Jan'19)**

UAV Flight	• **I automated UAVs' flight** over **huge stacks** with **no VLOS** having **high magnetic interference** affecting the GPS. • Used **DJI's SDK** for automating the path of the expensive UAVs and simulated the magnetic interference in **Gazebo** • Decreased manual intervention, reducing the cost, and increased Matrices drones' safety, which cost nearly **25 lakhs.**
GPS Tracker	• Developed a **low-cost standalone GPS tracking module,** which was later sold as a product by the company

Software Development Internship, Perpule, Bangalore (Got PPO) **(May'18-Jul'18)**

Video Walls	• Connected **salesman and customer** digitally using video conferencing cum vending machine sold products remotely. • Developed **Video conferencing cum e-commerce platform** using **Java jersey**, **multiRTC**, **ionic**, **angular, etc** • Automated the process of vending from a vending machine using python-based libraries like **OpenCV** on **raspberry pi** • This vending machine was later used in all **Future first** stores and used by millions of customers for buying products.
Offline First Cart	• Converted the current e-commerce Perpule app into an offline app and made it accessible even in low connectivity areas • Used Google's **big query** to list all suggested products, grouped them by stores, and periodically dumped them in-app. • Improved **user interaction by 2X, increased performance** and increased the number of **downloads to more than 100k**

PROJECTS

Quietly (Open Source, 2026)	• Built and open-sourced (MIT) a **Chrome extension** on the Chrome Web Store that filters YouTube with an LLM. • Classifies videos with an OpenRouter model at **$0.0002 per 40 videos**, 10x cheaper than a chat model; no server. • Drafts style-matched replies on WhatsApp and Gmail; launch post drew **77K+ impressions**.
Flight Control Board at CFI (2017-2018)	• Developed a **low-cost Flight Controller** based on the application of a low-level **PID** based control algorithm **for UAVs** • Custom-designed **PCB** for the controller and brought down the cost to ½ and IC&SR, IITM funded the project
Inter IIT Projects (2017)	• This project was based on the PS set by **Honeywell,** where we had to automate the **inventory management using UAVs** • Worked on the **precision landing for autonomous drones** using **OpenCV** and integrated all the modules using **ROS**
Inter IIT Projects (2018)	• This project was based on the problem statement set by **PlutoX** for Inter IIT Techmeet competition held in IIT Mumbai • Made algorithm for **flipping** the drone n times in air without losing altitude and made **hopping** the drone on the ground
Joeygql (Open Source Project)	• constructed on top of **GraphQL** Libraries used for the faster development and development of an application. • It includes **2-f authenticated APIs, payment gateway support for Instamojo and Razorpay, mail & SMS support**, etc. • **1500+ users,** including the Internfair portal of IITM, the business conclave of SRCC, Techtable, Gow90, Shoptohome, etc
Subsonic Fixed-Wing VTOL Aircraft (AS5100)	• Collaborated with a team of 3 to conceptualize and design subsonic fixed-wing aircraft with thrust vectoring capabilities • Optimized VTOL tilt mechanism design to achieve weight reduction by~5%, increase in payload capacity by ~20% • Built the aircraft prototype within 45+ days with in-house fabricated structural components and tilting mechanism
Chatbot	• Developed chatbot using web automation framework **Selenium** and **Dialogflow** for the use for WhatsApp marketing • Automated the sending/receiving of bulk messages to multiple people on the platform like **WhatsApp** and **Telegram**

NSS IITM App	• Made an official native Android app for NSS IIT Madras and **digitalized** the attendance taking (scan and mark concept)
Student Project Work at IIT M CSE Dept	• Made a Gmail scheduler for scheduling emails and sending bulk emails at one click using **Selenium** and **Beautiful soup** • Made a movie recommendation portal by Scrapping IMDB and analyzing the data using **Scrapy, Django,** and **Selenium**

TECHNICAL SKILLS

- **Languages:** Go, Python, TypeScript, JavaScript, Dart, Java, C++, SQL, Solidity
- **AI / ML:** Voice AI (TTS, ASR), LLM agents, Deep Learning, Computer Vision, TensorFlow, PyTorch, OpenCV
- **Frameworks:** React, NextJS, Flutter, NodeJS, Django, FastAPI, Spring, GraphQL (Hasura), ROS
- **Cloud & Data:** Kubernetes, Docker, Google Cloud, AWS, PostgreSQL, BigQuery, Kafka, Grafana, n8n
- **Domains:** Voice AI, Fintech (payments, BBPS), B2B SaaS, Robotics & UAVs, Start-up Leadership

RELEVANT COURSES

• Probability Statistics and Stochastic Process	• Programming, Data Structures, and Algorithms	• Principle Of Economics
• Practical Machine Learning with TensorFlow	• Machine Learning for Trading	• Strategic Management
• Computational Engineering	• Deep Learning	

CO-CURRICULAR AND EXTRACURRICULAR ACTIVITIES

National Cadet Corps **(2017-2019)**	• Awarded **NCC A, B, and C certificates** for excellence in theory and practical examinations at the **Indian Air Force Unit** • Attended **NCC camps, r**eceived **firing training,** and **flew microlite** as a co-pilot, conducted by the **Indian Air Force.**
National Service Scheme **(2016-2017)**	• Volunteered to provide support to underprivileged students by **teaching** programming for one year