

Varun Vilvadrinath

 github.com/varunvilva  linkedin.com/varunvilva  varunvilva1208@gmail.com  [Portfolio](#)


EDUCATION

Indian Institute of Technology (IITM), Madras <i>Bachelor's of Science in Data Science and Programming</i>	2022-2025 CGPA: 8.80, SGPA: 8.77
Indian Institute of Information Technology (IIITV), Vadodara <i>Bachelor's of Technology in Computer Science Engineering</i>	2021-2025 CGPA: 8.82, SGPA: 9.00



EXPERIENCE

SDE Intern <i>Jio Platforms Limited</i> <ul style="list-style-type: none">Deep dived into backend architectures of multiple softwares.Developed a event driven Notification Microservice platform with cross-application support with Azure EventHub and Kafka.Implemented asynchronous task processing with Celery to handle high API request volumes.Implemented robust backend architectures, prioritizing fault tolerance and resilience, adhering to agile principles for efficient development and delivery	May'24 - Aug'24
Teaching Assistant <i>Course: Linear Algebra</i> <ul style="list-style-type: none">Conducted weekly quizzes for the class to assess understanding and progress.Helping first year students to get through important concepts in Linear Algebra.Helping students with projects related to Linear Algebra.	Jan'24 - May 24'
Flask Backend Intern <i>ComputeLib</i> <ul style="list-style-type: none">Developed microservices for E-commerce website using Flask and FastAPI.Developed microservices for cross platform data translation.Developed microservices from scratch, fostering a deep understanding of scalable solutions and best practices for building efficient and maintainable systems.	Oct'23 - Apr'24

PROJECTS

MISAHUB-Challenge <i>Python, Tensorflow, Deep Learning, Image Processing</i> <ul style="list-style-type: none">Image Detection challenge on endoscopy images.Incorporated models like U-Net and YOLOv8 for better results.Maximised classification metrics of Precision, Recall and F1Score to 0.99Best IoU achieved 0.44 github.com/varunvilva/MISAHUB-Challenge	Jan'23
Visualizing Dynamics of Federated Medical Models via Conversational Memory Elements <ul style="list-style-type: none">Engaged in collaborative research focused on exploring Federated Learning methodologiesParticular emphasis on interpretations, incorporating conversational memory elementsResearch paper accepted in International Conference on Pattern Recognition, 2024	Oct'23 - Apr'23
Project Collaborator - ISRO Safe Ship Navigation <i>Advisor: Prof. Pratik Shah, IIITV</i> <ul style="list-style-type: none">Implemented entire backend of the application in Flask Python.Helped and implemented crucial algorithms like A*.Developed ETL pipeline using Apache Nifi	May'23 - Present

ACHIEVEMENTS

Google Gen AI Exchange Hackathon <i>Winner iSPIRIT track</i> <ul style="list-style-type: none">Aarthik Setu- an online lending platform (OCEN compliant) for ease of credit access to MSMEs.Built backend system in Golang with NoSQL database.Used langchain and pinecone in Golang for GenAI capabilities on the platform. Aarthik Setu	Oct'24
Build For Bharat Hackathon <i>Runners-Up</i> <ul style="list-style-type: none">Built a GenAI tool, multi-lingual and multi-modal for MSMEs across India to help them catalogue their inventory.Secured top 6 among 43 teams nation-wide and invited to pitch in Google, Bangalore to investors.Secured Runner-Up(Second) Price in this track.Won 3500\$ and 100K\$ worth Google Cloud credits Shelfie	May'24

TECHNICAL SKILLS

C, Java, Python, Pandas, Numpy, TensorFlow, Pytorch, OpenCV, Machine Learning, Deep Learning, MATLAB, Git/GitHub, VS Code, Postman APIs, Excel, PowerBI, Tableau, Flask, VueJs, NodeJs, Docker, ELK Stack, Kafka, Go-Gin/Fiber, FastAPI