ARNAV SUMAN

3rd year Student @ MIT, Bengaluru

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OBJECTIVE

Passionate about AI/ML with a strong drive to create scalable, impactful solutions for real-world problems. I am eager to deepen my knowledge of software development and cloud while applying my understanding of computer networks, operating systems, DSA(Leetcode 150+), deep learning, RESTful APIs, NLP, and computer vision. I hope to further build my skills during this internship.

SKILLS

- Python
- C/C++
- TensorFlow/Machine Learning
- Flutter/Dart
- MySQL/Oracle Database
- Java, Spring

WORK EXPERIENCE

SDE Intern, Indian Space Research Organization (ISRO), Sriharikota   December 2024 — January 2025

Worked in Range Operations at ISRO. Automated payslip generation workflows by developing backend logic for integrated data retrieval from Sybase and dynamic PDF creation using Java on a Tomcat server, ensuring efficient and accurate document processing. Gained experience in Java server applications and deployment pipelines.

AI Development and Integration Intern, KHUSHI.you, Bengaluru   August 2024 — October 2024

Responsible for development and integration of a deep neural network based chatbot for mental health, customer support, and payment support within the company's Flutter app.

EDUCATION

Manipal Institute of Technology, Bengaluru   July 2022 — May 2026

B.tech. Information Technology – CGPA 8.84

Vishwa Bharati Public School, Noida   April 2008 — July 2022

CBSE 12th – 85.0 %   CBSE 10th – 93.2 %

PROJECTS

Sentinel – *AI-Enabled Web Browser Built on top of Chromium/PyQt5*
Designed and Developing an intelligent web browser with AI-powered features
- *Predictive Tab Suspension* for resource optimization using browsing behavior analysis
- *Smart Summarization* using NLP model and custom API that accepts web content and returns summarized text
- *Performance Optimization* via intelligent resource management techniques
- *Privacy and Security by Design*, incorporating sandboxing and tracking protection mechanisms

OmniSight – *ERP with AI for Smart Factories, Manufacturing and Business Operations*
Developed an all-in-one AI-powered ERP solution to optimize factory and business workflows
- *Smart Inventory Management* for Demand forecasting and inventory optimization
- *Predictive Maintenance* for Remaining Useful Life prediction and maintenance scheduling optimization
- *Performance Optimization* via Real-time monitoring, quality control, and production output analysis
- *Energy Management*, optimizing energy usage across operations and machines

RailwayOps – *Desktop Application using JavaFX GUI & MySQL for backend data management.*
Developed a comprehensive desktop application to manage, automate, and safeguard railway operations
- *Train Scheduling* and *Locomotive/Coach Allocation* for efficient resource planning
- *Real-Time Status Tracking* and *Automatic Signalling* for operational transparency and safety
- *End-to-End Digitalization* of railway planning and execution workflows