

ANSH VIVEK MALHOTRA

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Education

National Institute Of Technology Karnataka

Bachelor of Technology in Computer Science and Engineering

Mangalore, Karnataka

Nov '22 - Mar '26

Technical Skills

Programming and Languages: C++, C, Python, Data Structures, Algorithms, Dart, MySQL.

Frameworks and Libraries: Flask, Flutter, Postman, React, OpenCV.

Tools: Git/GitHub, Firebase, Colab, Cisco Packet Tracer, GNS3, Logisim, JFLAP, Wireshark, LaTeX (Overleaf), Grafana.

Coursework: Data Structures and Algo, Software Engineering, Computer Networks, Design of Digital Systems, Operating Systems, Information Security, Probability Theory, Computer Architecture, Cloud Computing, Compiler Design.

Experience

Ergon Mobility

Bangalore, Karnataka

Software Developer Intern — Tech Stack - Python, React, Firebase, MySQL, Grafana

May '25 - July '25

- Developed a web application to interface with CAN-based vehicle systems for real-time data monitoring.
- Migrated the database from a legacy service to a new platform, improving performance and maintainability.

Industrial Training - NIT Karnataka

Mangalore, Karnataka

Internship — Tech Stack - Python

Dec '24 - Jan '25

- Implemented the DECO algorithm to optimize task offloading in Mobile Edge Computing (MEC) systems.
- Handled homogeneous and heterogeneous scenarios for scalable scheduling across diverse edge servers.

Council of Scientific and Industrial Research-4PI(NAL)

Bangalore, Karnataka

Research Intern — Tech Stack - TensorFlow Federated, Python, OpenCV

May '24 - July '24

- Implemented federated learning models in a server-client setup, focusing on data privacy and communication efficiency.
- Applied advanced techniques like FederatedTrust to enhance security in federated learning systems.

KMC Hospital

Mangalore, Karnataka

App Team Lead — Tech Stack - Flutter, Dart

Mar '24 - July '24

- Collaborated with medical professionals to gather and analyze patient data for trend identification and reporting.
- Assisted in the development of a system for monitoring and managing patient health metrics efficiently.

Projects

Telephone Directory App | Flutter, Dart, MySQL Database

[GitHub](#)

- Implemented a user-friendly interface for National Institute of Technology Karnataka as official Telephone directory app.
- Integrated MySQL database for efficient data management and retrieval across both Android and iOS platforms.

Database Systems Course Registration Portal | Frontend: HTML, CSS; Backend: MySQL

[GitHub](#)

- Developed user-centric course registration interfaces with secure, role-based admin access.
- Optimized database operations to enhance data retrieval speed and overall system performance.

HCR (Handwritten Character Recognition) | TensorFlow, OpenCV, Python, CNN

[GitHub](#)

- Pioneered the HCR project utilizing AI/ML with TensorFlow, CNN datasets, and OpenCV, achieving high accuracy in real-time handwritten character recognition.

Multi-UAV-Enabled Load-Balance Mobile-Edge Computing for IoT Networks | Python

[GitHub](#)

- Optimized task scheduling and resource allocation in IoT networks using UAVs for load balancing and reduced latency in mobile-edge computing.
- Applied mathematical models for decision making, scheduling, DE-Based Multi-UAV Deployment.

Leadership / Extracurricular

- President, Indian Society for Technical Education – Mentored 200+ students; prior role: Tech Secretary
- Vice President of Web Design and Public Relations at Student Energy NITK Chapter.
- Represented the CSE Department NITK at the CREST NITK Conference.
- Executive member of LSD NITK (Literary, Stage and Debating Society).