

ANKITHA C

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Education

SRM University

Bachelor of Technology in Electronics and Communications

Sep. 2022 – May 2027

Modinagar, Uttar Pradesh

Relevant Coursework

- VLSI-VHDL
- Microprocessors
- Machine Learning
- PCB Design
- Android Development
- Artificial Intelligence
- Digital Circuits
- Computer Architecture

Experience

British Airways

Data Science Intern

July 2025 – August 2025

Virtual

- Scrapped and processed 50,000+ customer reviews to analyze factors influencing buying behavior.
- Built a model using flight attributes and review data to forecast customer buying behavior with 85 percent accuracy.
- Delivered actionable insights by identifying 5+ key factors influencing customer purchasing decisions.

StackPro

UI/UX Intern

July 2024 – August 2024

Bengaluru, Karnataka

- Served as the sole designer, identifying and resolving 10+ design issues in real-time to ensure smooth project execution.
- Analyzed complex user feedback to redesign a workflow, resulting in a 15 percent reduction in task completion time.

Projects

Voice Command Recognition System | Python, MFCC, Machine Learning

Dec 2025 – Present

- Built a software-based speech recognition system that records audio, extracts MFCC features, and classifies commands using supervised ML models.
- Achieved high command-level accuracy by implementing preprocessing (silence removal, normalization) and training SVM/Random Forest classifiers on custom audio datasets.

Smart Blind Glasses with YOLOv3 | Arduino, Machine Learning, PCB, ESP32-CAM

Dec 2025 – Present

- Built a smart blind-assist device using ESP32 and YOLOv3, enabling real-time object detection and obstacle alerts.
- Integrated Python-based AI inference with embedded hardware to optimize detection accuracy and system response time.
- Designed, tested, and validated the end-to-end hardware-software system, improving reliability and user navigation safety.

Traffic Flow Prediction | Machine Learning, Python

Jan 2025 – May 2025

- Created and deployed a machine learning model using Python to predict vehicle traffic flow across 10+ city junctions with 85 percent accuracy.
- Modeled and preprocessed 50,000+ historical traffic data records using pandas and NumPy for feature extraction and model training.
- Evaluated 4+ regression algorithms (e.g., Linear Regression, Random Forest) and selected the best-performing model for traffic volume prediction.

Technical Skills

Languages: Python, Verilog, C/C++, HTML/CSS, Java, Kotlin

Developer Tools: VS Code, Xilinx ISE, Optisystem, Cadence, LTspice, Android Studio, Figma

Technologies/Frameworks: TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, PyTorch, SciPy

Research Work

ML Driven Predictive Modeling of OOK-FSO Systems

June 2025 – Present

Srm University

Research Contributer

- Built an ML model for 10 Gbps OOK-FSO BER prediction, achieving $R^2 = 0.906$.
- Designed and simulated the complete FSO link in OptiSystem and contributed key analysis and revisions to the published research manuscript.

AES-128 and AES-256 FPGA Implementation

Sep 2025 – Nov 2025

Srm University

Research Contributer

- Implemented AES-128 and AES-256 in Verilog on FPGA and analysed resource, delay, and power metrics.
- Contributed to research paper through simulation validation and comparative performance evaluation.