

Ankit Singh

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GitHub | Portfolio | LinkedIn | LeetCode

Education

Vellore Institute of Technology (VIT), Chennai

Sep 2021 – Apr 2025

B.Tech in Computer Science Engineering

GPA: 8.57/10

Seth Dwarka Prasad Bajaj Education Center, Mirzapur

Class 12 (ISC)

GPA: 8.75/10

Class 10 (ICSE)

GPA: 7.84/10

Technical Skills

Programming Languages: Python, C++, Java, C, JavaScript, SQL

Web & App Development: React.js, Node.js, Flask, RESTful APIs, Android Studio

AI/ML & Data Science: TensorFlow, Keras, PyTorch, Hugging Face, LightGBM, Scikit-learn, OpenCV, Pandas, SHAP, NumPy, Matplotlib

Cybersecurity: Ethical Hacking, Identity and Access Management (IAM), Network Security Fundamentals

Cloud Platforms & DevOps: AWS, Google Cloud, Firebase, Docker, Git, CI/CD, Linux Shell

Tools & Others: Arduino, UI Path, VS Code, Jupyter Notebook, Excel (Data Analysis), Couchbase

Experience

Deloitte Australia (Virtual Internship) – Technology, Cybersecurity, and Data Analysis

2025

[Credential Link]

- Simulated real-world Deloitte client scenarios involving risk assessment and cyber threat response.
- Created risk models and data protection policies aligned with Deloitte frameworks.

Projects

Intelligent Intrusion Detection and Mitigation System

GitHub

- Achieved 94% accuracy on UNSW-NB15 dataset (175K+ samples) using LightGBM + SHAP.
- Enhanced minority-class detection by 25% with SMOTE oversampling; reduced features by 35%.

Hindi Quill Bot – Text Paraphrasing & Grammar Correction Tool

GitHub

- Built a Flask-based NLP tool using Hugging Face models for Hindi grammar correction and paraphrasing.
- Improved semantic quality of output by 41% using pre-trained multilingual transformers.

Job Finding App (React + Expo)

GitHub

- Designed a job-seeking platform with real-time search, resume parsing, and REST API integration.
- Improved job relevance match by 40%;

Human Detection from Aerial Drone Footage

GitHub

- Achieved 87% detection precision using HOG and KCF tracking across 500+ aerial frames.
- Optimized performance by 20% using adaptive sampling.

Certifications

- **C++, C, Java** – IIT Bombay [Link]
- **AWS Cloud Practitioner** – Amazon [Link]
- **Ethical Hacking & Couchbase** – Internshala / Couchbase [Link]
- **Google Cloud (NPTEL)** – IIT Kharagpur [Link]
- **AI and Data Scientist** – One Roadmap [Link]
- **AI Engineer** – One Roadmap [Link]
- **Full Stack Developer** – One Roadmap [Link]
- **CyberSecurity Analyst – Identity & Access Management (IAM)** – Tata / Forage [Link]

Key Achievements

- Showcased a ROS-integrated line-following and obstacle-avoiding robot at the VIT Chennai Tech Expo, earning positive feedback for real-time embedded control and navigation logic.
- Actively contributed to the Android Club at VIT by resolving technical issues during live events, ensuring smooth app demonstrations and enhancing overall event execution quality.