

Ankit Singh

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GitHub | Portfolio | LinkedIn | LeetCode

Professional Summary

Computer Science graduate skilled in backend development, cloud integration, and applied machine learning. Experienced in building secure, scalable systems using Spring Boot and RESTful APIs, and deploying intelligent models using real-world datasets. Passionate about solving practical problems by combining software engineering with AI.

Education

Vellore Institute of Technology (VIT), Chennai

Sep 2021 – Apr 2025

B.Tech in Computer Science Engineering

GPA: 8.62/10

Seth Dwarka Prasad Bajaj Education Center, Mirzapur

Class 12 (ISC): 8.75/10 — Class 10 (ICSE): 7.84/10

Technical Skills

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

Backend: Spring Boot, REST APIs, Node.js, Flask

Databases: MongoDB, Redis, Firebase, MySQL

AI/ML: TensorFlow, Scikit-learn, PyTorch, LightGBM, Keras, SMOTE, SHAP, OpenCV

NLP/Transformers: Hugging Face, BERT, Multilingual Models

Tools/Technologies: Postman, Docker, Git, Linux Shell, JUnit

Cloud/DevOps: AWS, Google Cloud, Firebase

Other: Excel, VS Code, IntelliJ, Jupyter Notebook

Projects

Spring Boot-Based Web Application

GitHub

- Built secure REST APIs using Spring Boot, integrated MongoDB, Redis caching, and Spring Security.
- Integrated external APIs and conducted Postman-based testing for endpoint validation.

Hindi Quill Bot – Grammar & Paraphrasing Tool

GitHub

- Developed a Flask-based NLP application using Hugging Face APIs for Hindi grammar correction and paraphrasing; processed 2K+ sentences in testing.
- Boosted semantic fluency by 41% (BLEU score improvement) using multilingual transformers and RESTful NLP pipelines with 300ms average API latency.

Intelligent Intrusion Detection and Mitigation System

GitHub

- Achieved 94% accuracy on the UNSW-NB15 dataset (175K+ samples) using a LightGBM model with SMOTE (25% recall gain on minority classes) and SHAP for interpretability.
- Built a real-time Streamlit UI to visualize live threat classification with <500ms end-to-end inference latency.

Experience

Deloitte Australia (Virtual Internship) – Cybersecurity & Data Analysis

2025

[Credential Link]

- Conducted simulated cyber risk assessments and developed data-driven security policies.
- Used threat modeling and risk frameworks aligned with Deloitte standards.

Certifications

- AWS Cloud Practitioner – Amazon [Link]
- Full Stack Developer – One Roadmap [Link]
- AI Engineer / Data Scientist – One Roadmap [Link]
- C++, C, Java – IIT Bombay [Link]
- Google Cloud Computing – IIT Kharagpur (NPTEL) [Link]
- Ethical Hacking & Couchbase – Internshala [Link]
- Cybersecurity Analyst – IAM – Tata / Forage [Link]
- Deloitte Consulting Virtual Experience [Link]

Achievements

- Presented an autonomous robot with ROS-based obstacle avoidance at VIT Tech Expo.
- Resolved critical backend and deployment issues during Android Club events, receiving 95% positive feedback.