

Anshik Kumar Tiwari

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Summary

Computer Science student at VIT with a strong interest in building systems that are practical, reliable, and grounded in real-world requirements. I enjoy working with data, understanding how complex systems behave, and using careful analysis to make informed engineering decisions. My approach to problem-solving emphasizes thoughtful planning, optimization, and a clear understanding of the underlying problem before implementation.

Education

Vellore Institute of Technology

B.Tech in Computer Science and Engineering, GPA: 8.4

Chennai, Tamil Nadu

2023 – 2027

Experience

Research Consultant

WorldQuant

June 2026 – Present

Remote

- Achieved Gold Level on WorldQuant Brain — built quantitative alpha signals across live financial datasets using ML-driven feature engineering
- Ranked 6th nationally and 26th in the International Quant Championship, competing across quantitative modelling and financial problem-solving rounds

Full Stack Intern

Mindmach Technologies Pvt. Ltd.

July 2025 – Sep 2025

Remote

- Built data pipelines on AWS and Azure; automated operational workflows reducing manual processing overhead
- Worked across the stack with React.js and REST APIs, structuring data flows end-to-end from ingestion to frontend consumption

Technical Skills

- Programming Languages:** Java, Python (pandas, NumPy, matplotlib, Scikit-learn), SQL, C
- AI/ML:** TensorFlow, PyTorch, NLP, Semantic Search, RAG pipelines, OpenCV
- Frameworks:** Flask, FastAPI
- Databases:** PostgreSQL, MySQL, Supabase
- Cloud and DevOps:** AWS, Git
- Additional:** Data structures and algorithms, System design, OOPs, Operating systems, Computer Network

Projects

Semantic Search & Query Retrieval System | Python, FastAPI, NLP, Vector Embeddings

Trademarkia

- Built a retrieval system using vector embeddings and fuzzy topic clustering on the 20 Newsgroups dataset; wrote a semantic cache that matches queries across paraphrase variations

Data Redaction Tool | Python, OpenCV, Flask, PostgreSQL

- ML-based automation tool that detects and redacts PII from documents; Flask backend stores redaction policies and audit logs in PostgreSQL

Complex Mapping Visualizer | JavaScript, Canvas API, Complex Analysis

- Interactive browser tool for visualizing $w = f(z)$ transformations in real time; draw on the z-plane and watch conformal mappings (sin, exp, Möbius, Joukowski) render on the w-plane

Digital Yearbook | React, Express, PostgreSQL, NLP

- Full-stack application with authentication, role-based access control, and semantic search

AI Chrome Extension | JavaScript, Chrome Extensions API

- Browser extension that turns any input field into a chat interface, automating prompt generation from clipboard content

Achievements and Leadership

- Selected among top 1.9% nationally for **Amazon ML Summer School 2026** — learning advanced ML concepts like deep learning and generative AI
- Selected for **Visteon Scholar Programme** (Jan–Apr 2026) — learned automotive embedded systems, software development pipelines, cybersecurity testing.
- Won first place in the IQAC Quality Week 2025 Hackathon — built a student recruiter platform with an AI interview simulator, forum, and job portal
- 1st-author chapter “Integrated Multimodal Redaction Architecture With Reversible Cryptographic Obfuscation” accepted for publication in *Managing Sensitive Health Data Through Federated Learning and Generative AI* (IGI Global)

Certificates

- [AWS Certified Solutions Architect – Associate – AWS](#)
- [Programming for Everybody – University of Michigan](#)
- [Python for Data Science, AI and Development – IBM](#)