

# Anshik Kumar Tiwari

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## Summary

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CS student with hands-on experience in Python, data pipelines, and full stack development. Actively involved in quantitative finance through the WorldQuant Brain Challenge (Gold Level), and comfortable working across the data lifecycle from extraction and transformation to visualization and analysis. I pick up new stacks fairly quickly and I'm generally good at understanding how systems fit together.

## Education

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### Vellore Institute of Technology

B.Tech in Computer Science and Engineering, GPA: 8.44

Chennai, Tamil Nadu

2023 – 2027

## Experience

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### Full Stack Intern

Mindmach Technologies Pvt. Ltd.

July 2025 – Present

Chennai, India

- Built and deployed web applications and automated data pipelines on AWS, reducing manual turnaround on operational workflows
- Worked across the stack with React.js and REST APIs; structured and transformed data flows end-to-end for consumption by frontend and reporting layers
- Collaborated with Product and engineering teams to scope requirements and ship features against deadlines

## Technical Skills

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- **Programming Languages:** Python (pandas, NumPy, matplotlib, yfinance), Java, SQL
- **Data and Analytics:** Excel (PivotTables, VLOOKUP, INDEX/MATCH), Power BI, Tableau, Snowflake
- **AI/ML and Data Science:** TensorFlow, PyTorch, Scikit-learn, NLP, Semantic Search, RAG pipelines, OpenCV, LangChain, OpenAI/Anthropic APIs
- **Frameworks and Libraries:** Flask, FastAPI
- **Databases:** PostgreSQL, MySQL, Supabase
- **Cloud and DevOps:** AWS, Git
- **Additional:** Data structures and algorithms, System design, Agile methodologies, OOPs, OS, CN

## Projects

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

Trademarkia

- Built a retrieval system using vector embeddings on the 20 Newsgroups dataset with fuzzy topic clustering for efficient document search
- Wrote a custom semantic cache that matches similar queries even when phrased differently; served results through a FastAPI endpoint — structurally similar to a RAG pipeline

### Data Redaction Tool | Python, OpenCV, Flask, PostgreSQL

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

### Digital Yearbook | React, Express, PostgreSQL, NLP

- Full-stack application with authentication, role-based access control, and semantic search to connect users with content

### Debian Package (webv) | C, GTK3, Linux

- Linux-native browser launcher packaged as a .deb file for distribution across Debian environments

### 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

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- Reached **Gold Level in the WorldQuant Brain Challenge** — building quantitative alphas, developing trading signals, and working through real financial datasets as part of the simulation
- Ranked **7th nationally in the International Quant Championship** — competed across quantitative modelling and financial problem-solving rounds
- Won first place in the IQAC Quality Week 2025 Hackathon by building a student recruiter platform with an AI interview simulator, forum, and job portal
- Co-authored a research chapter for **IGI Global** on *Integrated Multimodal Redaction Architecture with Reversible Cryptographic Obfuscation* under the theme **Managing Sensitive Health Data: Privacy-Preserving Techniques**

## Certificates

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