Utkarsh Tuteja

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Professional Summary

Computer Science undergraduate (CSE–AI) experienced in building end-to-end **AI systems** from data preprocessing to **API-driven deployment**. As a short-term intern, independently led the largest technical build at a growing product-based company, applying **prompt engineering**, **debugging**, and **production deployment**. Skilled in **SQL pipelines**, **machine learning models**, **conversational AI**, and **FastAPI backends**.

Education

Manipal Institute of Technology **Expected June 2027**
B.Tech in Computer Science and Engineering (Artificial Intelligence) *Bengaluru, India*

- **CGPA:** 8.41
- Completed university-level coursework in **Natural Language Processing** and **Artificial Intelligence**; scored A+ in both.
- **Certification:** *Machine Learning Specialization* – Stanford Online & DeepLearning.AI (Coursera), Mar 2026. Verify here.

Experience

Wellversed **June 2026 – July 2026**
AI Systems Intern *Gurugram, India*

- Independently **spearheaded and led Influencer OS**, the company's largest internal technical build, from concept to production as a short-term intern – using **prompt engineering** with **Cursor IDE** to design and ship a fully working production website end-to-end, while **collaborating directly with stakeholders**.
- Automated influencer operations end-to-end – **termsheet generation**, **Google Docs/PDF creation**, **email workflows**, and **campaign management** – integrating **Google Service Account** auth, **Apps Script**, **Sheets**, **Gmail APIs**, and **REST APIs** for scalable automation.
- Built and **debugged** backend services on **MongoDB Atlas** with scalable schemas, troubleshooting live issues through **production deployment** cycles based on stakeholder feedback.

Technical Skills

Languages: Python, C++, Java, C, JavaScript (ES6+), Solidity
AI / ML: SQL, Pandas, NumPy, Scikit-learn, LightGBM, Sentence Transformers, IBM Granite RAG, Conversational AI
Prompt Engineering: LLM Prompt Design, AI-Assisted Dev (Cursor IDE), Voice AI (exploratory)
Backend / Web: FastAPI, REST APIs, API Integration, Node.js, Express.js, Web3.js
Databases: MongoDB, Mongoose, Vector Search (MongoDB Atlas)
Tools, Debugging & Deployment: Git, GitHub, Docker, AWS, Production Debugging, VS Code, CLion, PyCharm
Problem Solving: Solved 150+ algorithmic problems on **LeetCode** (arrays, strings, hashing, recursion, All DP patterns)

Projects

NexaCred Enhanced **2025**

- **Problem:** Traditional credit evaluation systems lack context-aware analysis and fail to integrate AI-driven insights with decentralized finance.
- **Solution:** Designed and built a **Retrieval-Augmented Generation (RAG) powered conversational AI chatbot**, applying **Natural Language Processing** from coursework (A+) with **SQL-based preprocessing** and **LightGBM** risk models, integrated with **Solidity smart contracts** via **FastAPI**.
- **Evaluation:** Compared multiple credit risk models using **precision, recall, F1, and AUC**, and tuned classification thresholds.
- **Tech Stack:** Python, SQL, FastAPI, LightGBM, Sentence Transformers, IBM Granite RAG, Solidity, Matplotlib

Brokemate – AI-Powered Expense Manager **2025**

- **Problem & Solution:** Manual expense tracking lacked real-time insight, so built a full-stack finance app with **JWT-based authentication**, **CRUD** expense management, and **AI-powered analysis endpoints**.
- **Tech Stack:** React, FastAPI, MongoDB, JWT, Recharts

Full-Stack Time-Series Anomaly Detection System **2026**

- **Problem & Solution:** Built a full-stack ML system detecting anomalies in real-time IoT/server/energy-grid data, combining **LSTM forecasting** with **GMM/KNN** via a **Flask REST API** and **React dashboard**.
- **Tech Stack:** Python, TensorFlow, scikit-learn, Flask, React, NumPy, Pandas