Utkarsh Yadav

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Education

Vellore Institute of Technology — **Expected May 2026**
Bachelor of Technology
Major in Computer Science and Engineering (Specialization in AI & ML)

Skills & Frameworks

Programming & Scripting: Python, JavaScript, SQL, HTML, CSS
Frameworks: React.js, Next.js, Node.js, Express.js, MongoDB, pandas, NumPy, Matplotlib
Tools: GitHub, RESTful API, OpenAI API, PowerBI, Jupyter, PostgreSQL
Specializations: Data Analysis & Visualization, Machine Learning, Statistical Modeling, Business Analytics
Soft Skills: Analytical reasoning, self-directed learning, Effective communication

Personal Projects

AIVIA: AI Virtual Interview Assistant | [GitHub](.) — **July 2025**
- Developed a voice-based interview system using FastAPI, React, and ElevenLabs. Supporting 6 job roles and delivering responses in under 3 seconds.
- Implemented authentication, resume text extraction, PostgreSQL storage, and WebSocket communication, achieved 95% agent-creation success and 98% session stability.
- Curated a complete MVP that reduced interview setup time to under 2 minutes and reached 80% interview completion rate while testing

PrepEngine - Educational Platform | [GitHub](.) — **March 2025**
- Created a learning platform using the MERN stack, used by 200+ early adopters, with secure login, course browsing, and structured learning sections.
- Designed REST APIs and optimized MongoDB queries, reducing data retrieval time by 30% and improving backend reliability
- Made reusable React components and efficient state management, improving page load speed and increasing user interaction by 40% during beta testing.

Stock Market Sentiment Analysis | [GitHub](.) — **May 2025**
- Added sentiment analysis for 10,000+ Wall Street Bets posts to an investment dashboard, improving early signal detection by 20%, and resolved 7 issues to enhance stability.
- Constructed an NLP pipeline leveraging XGBoost, LSTM, and FinBERT, Increased classification consistency by 15% through better preprocessing and feature extraction.
- Automated data cleaning, tokenization, and sentiment scoring in Python, enabling reliable large-scale processing of financial text information.

Internships

SniperThink | [Certificate](.) — **Delhi, India**
Machine Learning Intern — **July 2025 - October 2025**
- Formulated predictive models and multi-layer KPI pipelines, accelerating client insights with a 25% faster reporting cycle.
- Streamlined business-process workflows in Whimsical, reducing cross-team ambiguity and enhancing collaboration efficiency by 30%.
- Engineered and deployed sniperthink.com in Next.js + Tailwind CSS, converting complex Figma prototypes into a fully responsive website that decreased page load time by 40%.
- Automated CI/CD pipeline (GitHub → Vercel), cutting deployment time by 70% and ensuring zero downtime.

Achievements and Certifications

IBM Introduction to Software Engineering | [Coursera](.) — **February 2025**
Completed with honors. Gained practical knowledge in SDLC, Agile and version control.

JPMorgan Chase & Co. Software Engineering Job Simulation | [Forage](.) — **October 2025**
Completed hands-on tasks in Project Setup, Kafka & H2 Integration, and REST API.

Data Structures and Algorithms Python | [Udemy](.) — **February 2025**
Built strong skills in data structures, algorithms, and solving programming problems in Python.