

# 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

### Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate | [Oracle](#)

December 2025

### JPMorgan Chase & Co. Software Engineering Job Simulation | [Forage](#)

October 2025

### Google Analytics Certification | [Google](#)

December 2025

### IBM Introduction to Software Engineering | [Coursera](#)

February 2025