

Utkarsh Yadav

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EDUCATION

VIT Bhopal University

Bachelor of Technology

Major in Computer Science and Engineering (Specialization in AI & ML)

Bhopal, Madhya Pradesh

Expected May 2026

INTERNSHIPS

Sniperthink ([Link](#))

Remote

Machine Learning Intern

June 2025 - Oct 2025

- Formulated predictive models and multi-layer KPI pipelines, accelerating client insights with a 25% faster reporting cycle.
- Streamlined business process workflows on 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 load speed by 40%.
- Automated CI/CD pipeline (GitHub → Vercel), cutting deployment time by 70% and ensuring zero downtime.

PERSONAL PROJECTS

AIVIA: AI Virtual Interview Assistant ([Link](#))

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, achieving 95% agent creation success and 98% stable session uptime.
- Designed a complete MVP that reduced interview setup time to under 2 minutes and reached an 80% interview completion rate during testing.

Stock Market Sentiment Analysis ([Link](#))

March 2025

- Added sentiment analysis for 10,000+ WallStreetBets posts to an investment dashboard, improving early signal detection by 20%, and resolved 7 issues to enhance stability.
- Engineered an NLP pipeline using XGBoost, LSTM, and FinBERT, increasing classification consistency by 15% through improved preprocessing and feature extraction.
- Automated data cleaning, tokenization, and sentiment scoring in Python, enabling reliable large-scale processing of financial text data.

PrepEngine - Educational Platform ([Link](#))

May 2025

- Created a learning platform using the MERN stack, used by 200+ early users, 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 use.

ACHIEVEMENTS & CERTIFICATIONS

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

Feb 2025

Completed with honors; gained practical knowledge in SDLC, Agile and Version Control.

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

Oct 2025

Completed hands-on tasks in Project Setup, Kafka & H2 Integration, and REST API Development.

Data Structures and Algorithms Python ([Udemy](#))

Feb 2025

Built strong skills in data structures, algorithms, and solving programming problems using Python.

ADDITIONAL

Technical Skills: Python, SQL, HTML/CSS, JavaScript, Data Analysis & Visualization, Machine Learning, Statistical Modeling, Business Analytics

Frameworks & Tools: GitHub, RESTful API, OpenAI API, PowerBI, pandas, NumPy, Matplotlib, Next.js, React.js, Node.js, Express.js, MongoDB, Jupyter

Soft Skills: Analytical reasoning, self-directed learning, effective communication

Languages: Proficient in Hindi, Fluent in English