Utkarsh Yadav

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Gorakhpur, Uttar Pradesh - 273001, India

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering(AI & ML)** *2022-26*
  Vellore Institute of Technology, Bhopal — CGPA: 7.22

- **Sunbeam English School** *2022*
  Higher Secondary — Varanasi, Uttar Pradesh

- **Ryan International School** *2020*
  Secondary — Noida Ext., Uttar Pradesh

PERSONAL PROJECTS

- **PrepEngine - Educational Platform | Link** *May 2025*
  MERN Stack (MongoDB, Express.js, React, Node.js)
  - Architected and implemented a full-stack educational platform using the MERN stack, featuring user authentication, course management, and interactive learning modules, serving over 1,000+ students during beta testing.
  - Developed RESTful APIs using Node.js and Express.js, implementing secure authentication middleware and efficient data models for users, courses, and learning materials, achieving 99.9% uptime during peak usage.
  - Engineered a responsive frontend using React.js with modern UI/UX principles, resulting in a 40% increase in user engagement and 25% improvement in course completion rates.
  - Implemented secure user authentication and authorization systems, ensuring data privacy and protection of student information while maintaining compliance with educational data standards.

- **Stock Market Sentiment Analysis | Link** *March 2025*
  Python, TensorFlow, PyTorch, Pandas, MatPlotlib
  - Integrated sentiment analysis results from WallStreetBets posts into an existing investment dashboard, enhancing the team's ability to identify and capitalize on emerging market opportunities; fixed 7 bugs.
  - Used advanced machine learning and NLP techniques including XGBoost, LSTM, and FinBERT for sentiment analysis, utilizing Python for data preprocessing, feature engineering, and model evaluation.

- **URL Shortener | Link** *March 2025*
  HTML, JavaScript, Express.js, MongoDB
  - Developed a full-stack URL shortening service using Node.js, Express, and MongoDB that converts long URLs into short, manageable links
  - Implemented RESTful API endpoints for URL shortening, retrieval, and redirection with proper error handling and input validation
  - Integrated MongoDB with Mongoose for efficient data storage and retrieval of URL mappings

EXPERIENCE

- **Artificial Intelligence Internship | Link** *Feb - April 2025*
  Evoastra Ventures Inc — Remote
  - Preparing to contribute to AI projects, including algorithm development, data analysis, and machine learning model optimization
  - Preparing to engage with cross-functional teams to support AI-driven initiatives and projects.
  - Anticipated to work collaboratively with cross-functional teams on innovative AI-driven initiatives.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, HTML
Libraries : C++ STL, Python Libraries
Databases: MongoDb, Relational Database(mySql)
Areas of Interest: Data Analytics
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Judicious Reasoning, Versatility, Verbal Communication Tactical Coordination, Vendor Negotiation, Pricing Analysis, Assortment and Inventory Optimization

POSITIONS OF RESPONSIBILITY

- **Event Team Leader** AI Club, VIT Bhopal *Oct 2023 - 2024*
  - Liaised a team of 20+ members and organized over 5+ events.

- **Student Council Member** Ryan International School, Noida Ext.
  - Served as House Captain as for 3 years and helped in organizing 20+ events at school.

ACHIEVEMENTS

- **Finalist, Tech-O-Awaaz** Tech Debate Competition *2023*

- **Semi-Finalist, SECVIT'24** Capture The Flag Contest | Link *2024*