Umerkhan Golandaz

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Profile

Enthusiastic and detail-oriented Computer Engineering student with strong skills in Python, MERN stack, and AI/ML frameworks. Experienced in building projects involving Generative AI, deep learning (LSTM, CNN), web development, and data processing through internships and academic work. Skilled at working both independently and in teams, with proven abilities in problem-solving, project execution, and integrating modern technologies to deliver impactful, user-focused solutions.

Professional Experience

AI & Web Development Intern
October 2024 to March 2025
Alesa AI – UK

- Contributed to **AI-driven projects** by training and fine-tuning **machine learning models and LLMs** for real-world applications.
- **Integrated LLMs and AI models** into web and mobile applications, improving interactivity and user engagement.
- Collaborated on building an AI-based palm reading and tarot reading system, successfully integrating it into both the website and app platforms.
- Gained hands-on experience in **AI model deployment, API integration, and web-based user interfaces**.

Project Intern
May 2024 to July 2024
Elenxia

- Cleaned and transformed large volumes of web-scraped, unorganized data, ensuring consistency and usability.
- Performed data wrangling tasks including handling missing values, outlier detection, and data normalization.
- Applied feature engineering and imputation techniques to improve dataset quality for analysis.
- Created data visualizations to identify key patterns and insights, supporting better decision-making.

Skills

- **Programming languages:** Java, Python, C, C++, JavaScript, SQL, MySQL
- **Web development:** HTML, CSS, React, Node.js, Express.js, MongoDB (MERN stack)
- **Frameworks and tools:** REST APIs, Git, Linux, Docker (basic), AI/ML model deployment
- **Machine learning and AI:** LLMs (large language models), deep learning, CNN, LSTM, NLP (BERT, sentiment analysis), computer vision, generative AI
- **Core CS concepts:** object-oriented programming (OOP), data structures and algorithms, software development lifecycle
- **Other skills:** project management (Agile, Scrum basics), team collaboration, problem-solving

Projects

Fatigue detection using EfficientNetV2 (2024)
- Developed a fatigue detection system using CNNs trained on a dataset of 8,000 images
- Achieved 92% accuracy in detecting drowsiness and fatigue through facial cues

Machine learning for customer experience in financial services(2024)
- Built a BERT-based NLP model to analyze customer sentiment and improve user experience
- Extracted insights from financial datasets to support decision-making

Stress detection and solutions for gamers and streamers, October 2024 – ongoing
- Designed a stress detection framework that combines machine learning and psychophysiological analysis to evaluate stress levels in gamers and streamers
- Built and trained an LSTM-based voice analysis model for emotion classification, enabling accurate detection of stress patterns from speech
- Delivered personalized stress mitigation strategies by integrating multimodal features from voice and emotion data
- Integrated the system with real-time video analytics pipelines, allowing continuous stress monitoring during live gameplay

AI-powered learning platform for children (ages 3–10) (2025 – ongoing)
- Developing an interactive learning website using the MERN stack (MongoDB, Express.js, React, Node.js) to provide engaging educational content for children aged 3–10
- Integrating AI-driven features such as personalized learning recommendations, adaptive quizzes, and speech-based interaction to enhance user experience
- Designed a child-friendly UI/UX, ensuring accessibility, safety, and interactive engagement for young learners
- Implementing secure backend architecture with Node.js and MongoDB to manage user progress and analytics

Education

B. Tech Computer Engineering : Expected in June 2027
Vishwakarma University – Pune

12th : June 2023
Yashwant Jr Collage – Latur

10th : June 2021
Shri Bankatalal Lahoti English School – Latur

Accomplishments

Research paper: Precision fatigue detection published in Taylor & Francis (2024)
Research paper: Enhancing cybersecurity through AI published in IJFMR journal (2025)

Certifications

- Data visualization: empowering business with effective insights
- Introduction to Frontend Development course by Meta on Coursera
- LinkedIn Learning – 10+ courses in project management (Agile, Scrum, risk management, time management)
- IBM Bootcamp – Generative AI: Hands-on training in LLMs, prompt engineering, and AI applications

Activities and Honors

- Our team secured 3rd rank in the AI and ML hackathon at Vishwakarma University
- State-level football player – represented at state tournaments, developed strong teamwork, discipline, and leadership qualities
- Athletics and fitness enthusiast – active in the gym and sports, demonstrating commitment, consistency, and a goal-oriented mindset

Languages

English – fluent, Hindi – native, Marathi – conversational