Tanishk Pandey

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EDUCATION

Rungta College of Technology Bhilai, Chhattisgarh
Bachelor of Technology in Computer Science Aug. 2022 – May 2026

Bharti Public School Delhi, India
Junior and Senior High School May 2022

EXPERIENCE

Machine learning Internship October 2022 – November 2022
Verzeo *India*

- Developed a machine learning pipeline to process and analyze data from learning management systems using FastAPI and PostgreSQL
- Designed and implemented a full-stack web application with Flask, React, PostgreSQL, and Docker to visualize and apply machine learning models on GitHub data, predicting trends and collaboration insights
- Investigated and implemented machine learning techniques to analyze and visualize GitHub collaboration patterns for educational environments, enhancing classroom interactions

Techserve October 2024 – Present
Aropanam Nexus PVT LTD *Chhattisgarh, India*

- Developed and deployed a full-stack web application using React, Node.js, MongoDB, and SQL to manage and analyze user data with a focus on performance and scalability
- Built RESTful APIs with Java Spring Boot and Flask to handle data requests and integrate with machine learning models for real-time predictions
- Implemented serverless architecture using AWS Lambda and deployed web applications on EC2, utilizing S3 Buckets for efficient data storage and management
- Designed and integrated secure authentication and authorization systems using modern technologies, ensuring data security and user privacy

PROJECTS

Sign Language and Emotion Detection | *Python, Streamlit, React, Tensorflow , Keras , Docker*

- Developed a machine learning model to recognize and classify sign language gestures using computer vision techniques and deep learning frameworks (e.g., TensorFlow, Keras)
- Implemented emotion detection using facial recognition and sentiment analysis models, processing image and video data to identify emotional states
- Built a full-stack web application integrating machine learning models for real-time sign language translation and emotion detection, deployed with Streamlit and Docker

Utube | *MongoDb, Nodejs, Git*

- Developed and maintained backend services using Node.js and JavaScript to build scalable RESTful APIs for data processing and user interactions
- Created and optimized database schemas with MongoDB and SQL, ensuring efficient data handling and smooth integration with backend services
- Performed thorough API testing with Postman, ensuring the functionality, reliability, and security of RESTful endpoints through manual and automated testing
- Implemented authentication and authorization mechanisms using JWT and Passport.js, ensuring secure access control across backend services

Gaming Site | *Reactjs(NEXTjs) , JS , Tailwind , MagicUI*

- Developed dynamic and responsive user interfaces using ReactJS, implementing modern JavaScript features such as hooks, state management, and functional components
- Created reusable and maintainable components, improving the scalability and performance of frontend applications

- Utilized CSS frameworks (e.g., Tailwind, Material UI) and styled-components for responsive design, ensuring cross-browser compatibility and mobile responsiveness

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks: React, Node.js, Flask, SpringBoot, Django , FastAPI
Developer Tools: Git, Docker, Kubernetes, AWS, VS Code, Visual Studio, Jenjkins
Libraries: pandas, NumPy, Matplotlib