Sparsh Mittal

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SKILLS

Programming Languages: C/C++, Java, Python, Golang, HTML, CSS, JavaScript, TypeScript, SQL

Technologies & Tools: Oracle Cloud Infrastructure, Docker, Kubernetes, Git, JIRA, Data Structures, OOP, ML Algorithms, AI, NLP, LLM, API, Node.js, Agile Methodology, CI/CD (GitLab CI), Storage Concepts, Software Testing

Libraries/Frameworks: ReactJS, AngularJS, TensorFlow, PyTorch, Keras, NLTK, NumPy, Pandas, Scikit-Learn, Django

Databases: MySQL, PostgreSQL

Operating Systems: Linux, Windows

Soft Skills: Communication, Collaboration, Attention to Detail, Effective Teamwork, Analytical Problem-Solving, Adaptability, Interpersonal Skills, Willingness to Learn New Skills

WORK EXPERIENCE

Software Engineer Intern   April 2024 – May 2024
Springer Capital

- Assisted in the design, development, testing, and deployment of a real estate crowdfunding platform, including the implementation of APIs and Docker containers, resulting in a 20% reduction in deployment time.
- Collaborated with cross-functional teams (development & product management), enhancing development efficiency by 30-40%, while troubleshooting and debugging software issues to ensure project stability.
- Participated in software testing to meet quality standards and functional requirements, improving system reliability by 10%.

Open-Source Contributor   Feb 2024 – Present
Kuberflow

- Addressed validation issue of webhook for image names by containerizing with Docker, enabling consistent deployment and seamless integration with notebook-controller, resulting in improved system stability and 50% faster deployment time.

EDUCATION

VIT Bhopal University   Oct 2021 – Present
B.Tech. in Computer Science and Engineering   *CGPA:8.72/10*

PROJECT WORK

Food Waste Management System (2022):

- Developed a Food Donation Management System web application with a clean, user-friendly interface and optimized backend logic, resulting in a 25% reduction in page load time and a 30% increase in code efficiency.
- Enhanced user authentication and donation submission processes using React for the front end and Django and PostgreSQL for the backend, leading to improved functionality by 20% and ease of use for all users.

Hand Gesture Mouse and Voice Assistant (2022):

- Created a hand gesture mouse and voice assistant application using real-time gesture recognition for mouse control and voice recognition, leveraging advanced computer vision and machine learning techniques optimized by 40%.
- Utilized OpenCV and Python to enable seamless interaction, resulting in a 90% accuracy rate in gesture recognition and voice commands, significantly enhancing user experience.

Credit Risk Analysis and Assessment (2023):

- Developed a machine learning model to predict creditworthiness using historical data, financial indicators, and demographic information, achieving an 85% accuracy rate in predictions.
- Utilized frameworks such as Scikit-learn, Imbalanced-learn, and Pandas, resulting in a 30% improvement in model performance compared to baseline models and providing valuable insights for informed decision-making.

Real-Time Stock Price Prediction and Competitive Analysis for Portfolio (2024):

- Built a web application to predict stock prices for the next week using machine learning algorithms (LSTM and regression), achieving a mean absolute percentage error (MAPE) of 4%.
- Integrated real-time data from APIs (yfinance) and used frameworks such as NumPy, Pandas, Scikit-learn, Keras, and Django, leading to a 25% increase in user engagement due to enhanced portfolio-building insights.

ACHIEVEMENTS AND CERTIFICATIONS

- Among the top 5% of all hackers globally in MLH's Global Hack Week, based on achievement points.
- Ranked in the top 1% of 23,872 students nationwide completing the NPTEL Cloud Computing course.
- Career Essentials in Data Analysis by Microsoft and LinkedIn
- Data Science Foundations - Level 2 (V2) by IBM
- Introduction to Generative AI by Google
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate