Sai Kumar Mamidi

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EDUCATION

St. Martin's Engineering College, Hyderabad, Telangana.   Nov 2022 – Present
Bachelor of Technology in Computer Science   *CGPA:*   7.80/10
Courses: Data Structures & Algorithms, Machine Learning, Web Development, Database Management System

SKILLS

Programming Languages: C, C++, Java, Python, SQL, JavaScript , HTML, CSS, Reactjs.
Databases: SQL Server, MySQL.
Frameworks & Tools: Spring Boot, NumPy, Pandas, Scikit-learn, TensorFlow.
Cloud Technologies: AWS (Lambda, S3, EC2, Sagemaker, RDS)
Machine Learning: Linear Regression, Classification, Random Forest, KNN, NN, Natural language Processing.
Operating Systems: Windows, Linux.
Soft Skills: Team Coordination, Strategic Innovation, Agile Learning, Analytical Decision-Making.

WORK EXPERIENCE

Google AI-ML Virtual Internship, Amazon   Jan 2024 - Mar 2024
- Analyzed and implemented ML fundamentals, including model training, evaluation, and deployment workflows.
- Designed and optimized end-to-end ML pipelines using Amazon SageMaker, reducing model deployment time by 30%.
- Utilized AWS ML services for computer vision and NLP, achieving a 90% accuracy rate in sentiment analysis and image recognition tasks.
- Trained and deployed models that processed over 10,000 data points, demonstrating scalability and efficiency.

AWS Cloud Virtual Internship, **Amazon**   Sep 2023 - Nov 2023
- Learned the basics of AWS cloud architecture and key services such as EC2 and S3.
- Built functional websites with AWS services, handling over 5,000 files securely through Amazon S3.
- Reduced website loading time by 20% by optimizing cloud storage and server configurations.
- Gained practical experience in managing cloud resources, improving system uptime to 99.9%.
- Acquired knowledge of managing and storing data securely and foundational understanding of cloud infrastructure and its practical applications.

PROJECTS:

Client Tutor Application   Jan 2025 – Present
- Designed a responsive platform using React.js and Tailwind CSS, supporting over 1,000 users with real-time interactions.
- Engineered tutor-client matching with a 95% success rate, enhancing user satisfaction.
- Reduced page load times by 25% through front-end optimization, ensuring seamless user experience.
- Delivered a robust front-end solution, showcasing expertise in web development.

Health Insurance Premium Prediction - Machine Learning   Nov 2024 - Dec 2024
- Created a machine learning model using the Random Forest Algorithm, achieving 95% prediction accuracy on a dataset of 10,000 entries.
- Developed an interactive Streamlit interface that improved user engagement by 40%.
- Optimized model performance, reducing prediction time from 10 seconds to 6 seconds per query.

Retail Management System – DSA   Jun 2024 – Jul 2024
- Built a Java-based application to manage inventory and sales for businesses handling over 500 products.
- Automated revenue calculations, reducing manual errors by 90% and saving 15 hours of labor weekly.
- Improved inventory tracking efficiency by 30% through algorithmic enhancements.

EXTRACURRICULAR ACTIVITIES

- Photography
- Playinig Cricket
- Listening Music