Sai Sandeep Jagabathula

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Professional Summary

Information Technology graduate with hands-on experience in Artificial Intelligence, cloud computing (AWS), networking, and full-stack development. Proficient in Python, JavaScript, and Java, with expertise in building cloud-native applications and AI-driven solutions using deep learning frameworks (CNN, LSTM, Autoencoders) and cloud services. Skilled in problem-solving, automation, and writing clean, efficient code. Demonstrated ability to work collaboratively on diverse projects, from EEG-based disease prediction to intelligent web and chatbot applications. Committed to continuous learning and applying modern AI and cloud technologies to deliver scalable, high-quality solutions.

Education

B. Tech in Information Technology (2021 – 2025)
Lakireddy Bali Reddy College of Engineering · CGPA: 9.07/10

Internship

Cloud Engineering and DevOps
Datavalley *(Academic Internship)* | May 2024 – Jul 2024

- Practiced Agile methodology with a focus on iterative, sprint-based development.
- Gained hands-on experience with AWS services such as EC2, S3, and RDS to support scalable deployments.
- Explored AWS security practices and database management to ensure secure, efficient cloud solutions.

Skills

Programming Languages: Python, Java, JavaScript, HTML, CSS
Concepts: Data Structures and Algorithms, Object-Oriented Programming
Cloud & DevOps Tools: AWS (EC2, Lambda, S3, CodeBuild, Fargate), Docker, Git, GitHub, VSCode
Software Development: OOP, RESTful APIs, Software Design Principles, OSI Model (Layered Architecture)
Databases & Protocols: SQL, Mongodb, Database Concepts, HTTP/HTTPS
Soft Skills: Problem Solving, Critical Thinking, Communication, Team Collaboration with Individual Initiative

Projects

- **Prediction of Parkinson's Disease Using EEG Data**
  Led a team of three to develop a predictive deep learning model combining CNN, LSTM, and Autoencoder architectures for spatial, temporal, and latent feature extraction. Achieved 95% classification accuracy on EEG datasets through model optimization and rigorous validation. Coordinated with faculty and peers to enhance model reliability and ensure research-driven implementation.
- **Cloud-native application with AWS Fargate**
  Developed a full-stack cloud-native application using AWS Fargate for containerized deployment, demonstrating cloud and DevOps best practices. Built and maintained the backend service to interact with MongoDB, retrieve records, and expose data via RESTful APIs. Designed and implemented the frontend using HTML, JavaScript and CSS, for a responsive user interface.
- **AWS Lambda Image Resizer**
  Built a fully serverless image resizer API using AWS Lambda, S3, and API Gateway, enabling dynamic resizing of images on demand. Optimized performance and cost by leveraging AWS's pay-per-use model, eliminating the need for dedicated servers. Implemented secure IAM policies to manage S3 access and ensured high availability by utilizing AWS cloud services.

Certifications

- **Data Structures and Algorithms in Java** - Infosys Springboard
- **AWS Cloud Practitioner Essentials** - AWS Training and certification
- **Introducing Generative AI with AWS** - Udacity
- **Programming Essentials in Python from - Cisco**

Publications

An Ensemble Deep Learning Model Using CNN, LSTM and Autoencoder for EEG-Based Parkinson's Disease Classification - IEEE