

Yeswanth Yerra

+91 9550413132 | yeswanthyerra07@gmail.com | [Linkedin](#) | [Github](#)

EDUCATION

Pragati Engineering College

Bachelor of Technology, Computer Science and Engineering (GPA- 8.14/10.0)

Surampalem, AP

Aug. 2019 – May 2023

Sasi junior College

Intermediate (GPA-9.8/10.0)

Eluru, AP

Aug 2017 – May 2019

TECHNICAL SKILLS

Languages: Java, JavaScript, Python

Core Skills: Data Structures & Algorithms, Computer Networks , Operating Systems,DBMS

Frameworks: Spring Boot, Hibernate,React.js,Flask

Developer Tools: Git, Docker, Terraform, Ansible, Jenkins

Databases: MySQL, MongoDB, PostgreSQL

Cloud Computing: AWS,Kubernetes

EXPERIENCE

Full Stack Development Intern

Pantech Prolabs Pvt Ltd

June 2024 - October 2024

Chennai, TN(Remote)

- Engineered a web application using Spring Boot for the backend, employing RESTful APIs and efficient database querying with MongoDB.
- Gained expertise in design patterns and microservice architecture for building efficient, modular systems.
- Applied scalable web development practices to ensure optimal performance under increasing user loads and Implemented authentication and authorization.
- Maintained high code quality by adhering to clean coding practices and leveraging testing frameworks like JUnit5 and Mockito, achieving 95% test coverage.
- Enhanced application reliability with Docker containerization, cutting deployment time by 50% and ensuring consistent performance across all environments.

PROJECTS

Movie Recommendation System | Demo

October 2021 - March 2022

- Led a team of 4 members for movie recommendation system by integrating collaborative filtering, content-based filtering, and matrix factorization, resulting in a 33% improvement in accuracy using the MovieLens dataset.
- Extracted metadata features and employed TF-IDF for precise vector representation and enhancing feature quality by 30%.
- Reduced RMSE from 2.2489 to 1.1000 by finetuning ALS matrix factorization for collaborative filtering.
- Addressed sparsity and cold-start challenges effectively using content-based filtering, reducing cold-start failures by 50% and improving recommendation coverage.

Network Intrusion Detection System (NIDS) | Repo

October 2022 - March 2023

- Engineered a Network Intrusion Detection System Utilizing BiLSTM to capture both forward and backward dependencies,Integrated an attention layer to prioritize critical features, resulting in a 25% increase in detection accuracy.
- Trained the model on the refined NSL-KDD dataset, addressing class imbalance and boosting overall performance by 30%.
- Implemented hyperparameter tuning using grid search and random search, optimizing the BiLSTM network's learning rate, batch size, and number of hidden layers, leading to a 20% increase in accuracy.

Job Application Microservices API | Repo

October 2023 - December 2023

- Designed and deployed a microservices architecture using Spring Boot, Eureka, and Feign clients, enabling seamless communication between 3+ services, with 99.9% availability.
- Implemented JWT-based authentication and role-based security across 3 microservices, securing 100+ endpoints with 2 or more roles per service.

- Integrated RabbitMQ for asynchronous communication, handling up to 50,000 messages per day between microservices, improving system performance and reliability.
- Deployed the application on Kubernetes, leveraging auto-scaling and caching strategies to efficiently handle traffic spikes and ensure high availability for up to 100,000 concurrent users.

Simple Song Search | Repo

November 2024 -December 2024

- Engineered a robust song search application using Flask and advanced algorithms like TF-IDF and cosine similarity across a dataset of over 50,000 tracks
- Improving search speed and accuracy by 40% .
- Designed a responsive web interface and deployed the application on Render,achieving a 99.9% deployment success rate.

CERTIFICATIONS

DataScience for Engineers - NPTEL-IIT MADRAS • 2023

Software Engineering Job Simulation - Hewlett Packard Enterprise(Forage) • 2024

GenAI path in Google Cloud Platform - Google

Java 17 MasterClass - Udemy

Machine Learning Using Python - SimpliLearn

Accounting and Data Analytics with Python - Coursera-Illinois University