Sarvani swapna priya Yallapragada

Software Engineer

I'm a dedicated problem-solver who thrives under pressure, excelling in high-stakes environments with a knack for turning challenges into opportunities. With a strong background in backend development and a passion for exploring diverse tech fields, I continuously seek to expand my expertise. Outside of work, I enjoy journaling, writing poems, and the thrill of unplanned backpacking adventures. As a Toastmaster, I cherish the art of public speaking and leadership, always eager to learn and grow.

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WORK EXPERIENCE

Software Engineer
Tarento Technologies

08/2022 - Present   *Bengaluru*
Achievements/Tasks

- **Spinbase** Analyzed and improved the client's vector system, integrating advanced language models. Conducted end-to-end analysis using BART, T5, Mistral, and Llama models, evaluating performance and scalability. Provided technical documentation, competitive analysis, and cost assessments, optimizing resource allocation and ROI.

- **THOR for CX** Developed and integrated THOR (AI-Powered Digital Assistant) for CX using FAISS, achieving high accuracy in understanding customer inquiries. Integrated OpenAI APIs to enhance natural language understanding, enabling dynamic order changes based on customer requests. Implemented a Human-in-the-Loop framework and a flexible router mechanism for efficient request handling, optimizing response times. Stack: Python, FAISS, OpenAI APIs

- **Predictive Maintenance of IoT** Developed an advanced AI model for predictive maintenance using machine learning techniques to analyze 5 years of IoT data. Led end-to-end development from data preprocessing to model selection, training, and deployment. Employed regression models and time series analysis, integrating an alert service for real-time notifications to ensure proactive maintenance and minimize downtime. Stack: Python, Numpy, Scikit-learn

- **Management Information Systems (MIS)** Implemented a Kafka pipeline using Java and Spring Boot for data records processing and analytics. Delivered tailored visualizations, increasing user satisfaction by 95%. Integrated Everit JSON Schema validator and JOLT Transforms, reducing invalid data entries by 70% and improving data accuracy by 90%. Maintained a 95% issue resolution rate with daily support calls. Received Spot Awards and a Team Impact Award.

- **Tech Migration**: Open stack to Azure stack Worked on the migration of a Java Spring Boot application from OpenStack to Azure Stack. Seamlessly integrated Azure Event Hubs for event streaming, replacing Kafka, Azure Application Insights and migrated to Azure Elastic Search. Implemented End to end testing and troubleshooting the issues along with providing a comprehensive documentation. Stack : Azure Event Hubs, Azure application Insights, Azure Elastic search.

- **Employees Geospatial Mapping** Developed a cutting-edge geospatial employee mapping solution tailored for the Indian market using Java, Spring Boot, Node.js, and Leaflet.js. Enhanced data analysis through the integration of Scala, Flink, and regex validations, leading to an 80% improvement in targeted employee outreach strategies. Stack: Java, Springboot, Kafka, Elasticsearch

SKILLS

`Java` `Python` `Docker` `Kafka` `Elasticsearch`
`Spring Boot` `MySQL` `MongoDB`

ACHIEVEMENTS

Spot and Team Impact Award
Awarded Spot awards and Team Impact awards for Steller performance in various projects.

PERSONAL PROJECTS

Personal Portfolio
- Developed a personal portfolio website showcasing skills and experience. Utilized technology stack including HTML, CSS, JavaScript for the front-end and Node.js, Mongoose, and MongoDB for the back-end, including an SMTP mail sending system for contact functionality.

Image Processing based Photo management system
- Designed and implemented an open-source system using Python to automatically sort and deblur images. Pioneered the integration of a Convolutional Neural Network (CNN) with deep learning for image deblurring, achieving an accuracy of 88%.

CERTIFICATES

Introduction to Generative AI (Google Cloud) (06/2024 - Present)
Gained expertise in advanced AI concepts, generative models, and practical applications of AI technologies

Data Analysis with Python (FreeCodeCamp) (11/2023)
Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities

EDUCATION

Integrated MTech in Electronics and Communication (08/2017 - 07/2022)
86 %

LANGUAGES

Hindi
Full Professional Proficiency

English
Full Professional Proficiency

Telugu
Full Professional Proficiency