Pravalli Budida

Portfolio Website: https://pravs-mystic.github.io

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RELEVANT EXPERIENCE

Seattle University   Seattle, WA
Research Assistant   Jun 2024 - Sep 2024
- Revamped the Database Management Systems (DBMS) curriculum, to elevate student engagement and mastery of concepts
- Identified correlations and investigated the impact of industrial chemicals on lung diseases by analyzing health-related datasets

Keypoint Technologies   Hyderabad, India
Software Engineer   May 2022 - April 2023
- Designed and implemented a PostgreSQL database from inception for an education technology platform with 5000+ users and integrated Node.js APIs with web and mobile applications
- Expertise in leveraging PostgreSQL triggers to automate updates across tables and generate extensive performance analytics
- Implemented several features in a multilingual chatbot using custom NLP/NLU models to automate responses to common issues, improving client-agent communication and customer experience
- Developed complex web applications using React, Angular and integrated them with REST APIs
- Skilled in leveraging AWS, Jenkins, Git, and Docker to set up CI/CD pipelines and seamlessly deploy microservices
- Day-to-day responsibilities included code reviews, debugging, deployments and mentoring interns

Polaris Consulting Services Ltd   Hyderabad, India
Associate Software Engineer   Aug 2015 - Jan 2017
- Enhanced invoice generation accuracy for Citibank Trust by optimizing Oracle PL/SQL procedures and functions
- Conducted extensive unit tests to validate bug fixes and new features

ADITIONAL EXPERIENCE

Headstarter AI   Remote
Software Engineering Fellow   July 2024 - Sep 2024
- Built and deployed 5 AI projects in 5 weeks using concepts like LLMs, RAG, Vector DB (Pinecone, PGVector), and Langchain following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
- Founded BlueStraw, an AI chat app where users can interact with their documents using custom tools and integrations and get personalized responses; leveraged Google Analytics for tracking user interactions and engagement with the app

RELEVANT PROJECT EXPERIENCE

- **Collaborative Filtering Recommendation Engine**- Implemented using Apache Spark to provide personalized movie recommendations based on given user ratings (Spark, AWS, Docker)
- **End-to-end Data Engineering Pipeline-** Implemented using AWS Glue, Athena, and Quicksight to stage, transform, and visualize Spotify dataset insights, enabling efficient querying and real-time business intelligence.
- **Airport-Airlines Choice Model Machine Learning Project** - Generated comprehensive profiles and forecasting model of airport and airline choices based on user travel data and various regression methods (Python, R, ML models)
- **Amazon Ads Project** - Developed a model for optimal audience targeting strategy to maximize impressions for advertisers and created insightful visualizations (Python, Tableau, ML modeling)
- **Interactive Stocks Dashboard -** Developed using the R Shiny framework, elevating data visualization and business insights

EDUCATION

Seattle University   Seattle, WA
Master of Science in Business Analytics (GPA: 3.9)   Sep 2023-Present
Relevant Courses: Statistical Modeling, Data Wrangling and Visualization, Machine Learning, Big Data
Awards: Dean's Honor List of Academic Excellence

SKILLS

Languages/ Frameworks: R, Python, Java, JavaScript, Typescript, HTML, CSS, Node.js, React, Next.js, Angular, Apache Spark
Databases: SQL, PL/SQL, Postgres, NoSQL, MongoDB, Firebase
Tools/Concepts: AWS, Quicksight, ETL, Tableau, Excel, Jupyter, Git, Docker, Jenkins, Jira, Vercel, Stripe, Clerk, Linux, Agile, Microservices, Machine Learning Models, Statistical Analysis, t-test, Chi-squared, Data pipelines, Communication Skills, UAT, SDLC
Generative AI Stack: LLMs, RAG, Vector DB, Pinecone, pgvector, Langchain, LLM Tools