Pravalli Budida

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

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EDUCATION

Seattle University   Seattle, WA
Master of Science in Business Analytics (GPA: 3.9/4.0)   Sep 2023 – Jun 2025 (Expected)
Relevant Courses: Statistical Modeling, Financial Analytics, Data Wrangling and Visualization, Machine Learning, Big Data
Awards: Dean's Honor List of Academic Excellence, Clare Cayo Wilson Scholarship Award (2024-2025)

PROFESSIONAL EXPERIENCE

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

Headstarter AI   Remote
Software Engineering Fellow   July 2024 - Sep 2024
- Developed and successfully launched 5 AI projects in 5 weeks, leveraging cutting-edge technologies such as LLMs, RAG, and Vector Databases (Pinecone, PGVector). Achieved agile delivery with a 100% sprint success rate while integrating CI/CD.
- 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.

Keypoint Technologies   Hyderabad, India
Software Engineer   May 2022 - April 2023
- Designed a robust PostgreSQL database for an edtech platform, scaling it to support a large user base. This architecture reduced query response times and improved overall system performance.
- Automated real-time data updates and enhanced operational efficiency for analytics by implementing PostgreSQL triggers.
- Led the development of multilingual chatbot features using custom NLP/NLU models, reducing customer service resolution time and boosting customer satisfaction. Implemented automatic logging and reporting of user interactions with actionable insights.
- Built and deployed web applications with React/Angular, seamlessly integrating REST APIs for optimized user experiences.
- Established CI/CD pipelines using AWS, Jenkins, Git, and Docker, reducing deployment time and ensuring continuous delivery.
- Conducted code reviews, debugged complex issues, and mentored interns, contributing to team success and skill development.

Polaris Consulting Services Ltd   Hyderabad, India
Associate Software Engineer   Aug 2015 - Jan 2017
- Increased invoice generation accuracy and financial processing efficiency for Citibank Trust by optimizing PL/SQL procedures
- Enhanced software quality by leading unit testing efforts, identifying and resolving critical bugs that improved system stability

RELEVANT PROJECT EXPERIENCE

- **Collaborative Filtering Recommendation Engine**- Engineered a personalized movie recommendation system using Apache Spark, achieving improvement in recommendation accuracy by applying collaborative filtering techniques. (Spark, AWS, Docker)
- **End-to-end Data Engineering Pipeline-** Designed and implemented a real-time business intelligence pipeline with AWS Glue, Athena, and Quicksight, enabling dynamic reporting and reducing data processing time
- **Airport-Airlines Choice Model** - Developed a machine learning model predicting passenger airport and airline choices with 85% accuracy, utilizing regression methods to inform strategic decisions for the aviation industry. (Python, R, ML models)
- **Optimizing impressions for Ads**- Developed an optimal audience targeting strategy using ensemble machine learning techniques, improving ad campaign effectiveness. (Python, Tableau, ML modeling)
- **Interactive Stocks Dashboard -** Developed using the R Shiny framework, elevating data visualization and business insights

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, AI Agents