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, Data Wrangling and Visualization, Machine Learning, Big Data, Financial Analytics
Awards: Dean's Honor List of Academic Excellence, Clare Cayo Wilson Scholarship Award (2024-2025)

PROFESSIONAL EXPERIENCE

Seattle University   Seattle, WA
Statistics Tutor for Undergraduates and Graduates   Sep 2024 – Present
- Tutored students in statistical applications and quantitative methods covering hypothesis test, t-test, chi-squared, regression analysis and data interpretation techniques, fostering strong analytical skills among students in a virtual lab environment

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
- Developed and scaled a PostgreSQL database for an edtech platform, optimizing query response times and system performance
- Automated real-time data updates and enhanced operational efficiency for analytics by implementing database 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 Data Scientist   Aug 2015 - Jan 2017
- Increased invoice generation accuracy and processing efficiency for Citibank Trust by optimizing data workflows in Oracle PL/SQL
- Enhanced software quality by leading data validation efforts, identifying and resolving critical bugs that reduced error rates

RELEVANT PROJECT EXPERIENCE

- **Movie Recommendation Engine**- Improved recommendation accuracy with collaborative filtering method. (Spark, AWS, Docker)
- **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, Neural N/Ws)
- **Optimizing Ad impressions**- Implemented an optimal audience targeting strategy leveraging data preprocessing, feature engineering, ensemble methods and model tuning to improve 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, Linux, Agile, Microservices, Machine Learning Models, Statistical Analysis, t-test, Chi-squared, Data pipelines, Data science, Data Visualization, Communication
Generative AI Stack: LLMs, RAG, Vector DB, Pinecone, pgvector, Langchain, LLM Tools, AI Agents