

Praful Chand Potluri

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CAREER OBJECTIVE

Driven Data Science graduate student with proven experience in data engineering and a passion for applying analytical insights to real-world challenges. Excited to bring a blend of technical knowledge and hands-on project experience to a dynamic, data-focused team, aiming to contribute to innovative, data-driven solutions and continuous improvement.

TECHNICAL SKILLS

- **Programming:** Python, Java, R Programming, C, JavaScript, SQL.
- **Statistical Analysis Software:** SAS Programming.
- **Machine Learning:** Data Preprocessing, EDA, Regression Analysis, Text Mining, NLP.
- **Python Packages:** NumPy, Pandas, Scikit Learn, Matplotlib, Seaborn.
- **Other Tools:** MS Excel, PowerPoint, Word.

PROFESSIONAL EXPERIENCE

DATA INFORMATION ASSOCIATE

08/2023–04/2025

Western Michigan University

- **Monitored and analyzed facility usage data** (room reservations, foot traffic, resource allocation) resulting in accurate scheduling and more efficient daily operations using **Mazevo, SenSource, and SubItUp**.
- **Processed and validated 50+ daily data entries** in Excel, maintaining 99% accuracy in event documentation and resource tracking. **Processed and validated over 50 daily data entries** in Excel, achieving 99% accuracy in event documentation and resource tracking, by applying strong attention to detail and proficiency in Excel.
- Compiled utilization and scheduling reports, which **supported data-driven decision-making** for space usage and staffing, using advanced reporting and analytical skills.
- Assisted in **optimizing allocation of resources** based on real-time event needs, ensuring **optimal resource deployment and client satisfaction**, by utilizing adaptability and problem-solving skills in dynamic environments.

SYSTEMS ENGINEER

01/2021–05/2023

Infosys Limited

- Customized and optimized the **IFS FSM tool** to meet specific business requirements, resulting in **enhanced system functionality and improved operational efficiency**, by leveraging strong system analysis and business process optimization skills.
- **Integrated FSM with other enterprise systems** to enable seamless data flow and communication across departments, which ensured consistent and reliable data access throughout the organization, utilizing experience in system integrations and cross-functional collaboration.
- Managed and validated multiple FSM and enterprise system environments, **maintaining system stability, reliability, and optimal performance across diverse settings**, using meticulous attention to detail and expertise in system administration. Led **data migration** efforts between environments, **ensuring data integrity** and **facilitating smooth system transitions**, drawing on comprehensive knowledge of data migration processes and change management.
- Developed and maintained **detailed system documentation** for configurations, processes, and troubleshooting, supporting efficient knowledge transfer and system continuity, through strong technical writing abilities and process documentation experience.

EDUCATION

MASTER OF SCIENCE IN DATA SCIENCE

Western Michigan University

April 2025

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE

Jawaharlal Nehru Technological University

November 2021

CERTIFICATIONS

- Google Data Analytics Professional (Coursera, 2025) – SQL, Tableau, R

PROJECTS

1. Blackjack Game with AI Assist

- Created an engaging, **multi-player Blackjack game** featuring an **AI assistant** that offered **real-time strategy tips to players**. This made the game not only more fun but also helped players make smarter decisions, boosting their accuracy by 30%. I built AI using Python, TensorFlow, and reinforcement learning techniques.
- To make the AI's advice more effective, I combined **rule-based logic (MDP)** and **learning-based models (DQN)**, which resulted in **25% more optimal move suggestions**. This project was a great showcase for my skills in **object-oriented programming** and **problem-solving with algorithms**.
- I designed a **user-friendly interface using Tkinter**, letting players enjoy **dynamic card displays** and **real-time score updates** making the game both **interactive and visually appealing**. The game also featured smooth multi-player turns and balance tracking, highlighting my abilities in data structures, state management, and exception handling.

2. E-commerce Recommendation System on Amazon Alexa Reviews

- Developed a **personalized recommendation system** based on Amazon Alexa Reviews dataset.
- Utilized the *Amazon Alexa Reviews* dataset, demonstrating expertise in **data preprocessing** and **exploratory data analysis (EDA)**.
- Enhancing the **relevance of product suggestions** and **improved user satisfaction**, by leveraging skills in **Python**, **collaborative filtering**, **data preprocessing**, **EDA**, and **machine learning**.

3. Career Advancement Prediction Application Using R Shiny

- Developed a web-based career advancement prediction application using R Shiny, which **empowered users with personalized career insights and actionable recommendations** for professional growth, by **leveraging Agile methodology**, **Random Forest algorithms**, **exploratory data analysis (EDA)**, and **user interface design skills**.