

# Praful Chand Potluri

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## CAREER OBJECTIVE

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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

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- **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

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### 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

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### MASTER OF SCIENCE IN DATA SCIENCE

*Western Michigan University*

April 2025

### BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

*Jawaharlal Nehru Technological University*

November 2021

## CERTIFICATIONS

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- Microsoft Power BI Data Analyst (2025) – Power BI
- Google Data Analytics Professional (2025) – SQL, Tableau, R

## PROJECTS

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### 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**.