

PRAMATH PARASHAR

Tucson, Arizona, USA

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EDUCATION

Kent State University, OHIO, USA

Master of Science — Data Science. **GPA:** 3.74 / 4.0 Graduating on May 09 2024

May 2024

Malla Reddy Engineering College, TELANGANA, INDIA

Bachelor of Technology — Computer Science and Engineering. **GPA:** 8.34 / 10.0

Jun 2022

TECHNICAL SKILLS

Programming Languages: Python, C Programming, C++, Java, JavaScript, R Programming, MATLAB and Simulink.

Database Management: MySQL, Oracle SQL, PostgreSQL, SQL Server, NoSQL, Data Warehousing.

Data Analysis and Visualization Tools: Excel dashboard, Alteryx, QlikView, Tableau, Power BI.

Big Data Technologies: MapReduce, Hadoop, PySpark.

Cloud Technologies: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, IBM Watson.

Internet of Things: Raspberry Pi, Arduino Programming.

Software Development: Spring framework, JDBC, Test-first/Test Driven Development, Familiarize with Software development methodologies like Agile, CI/CD.

Data Governance: UI/UX, Data Quality, Data Processing, Security Controls, Root Cause Analysis, Data Modeling, Data Transformation, Data Mapping, Data Collection, Data Architecture.

Other Skills: TCP/IP, Jenkins, SAP, ADAS, Microsoft Excel, Power Apps, Canvas Apps, BDD

WORK EXPERIENCE

Data Science Specialist

Sept 2024 – Present

BHP Minerals Service Company - Legacy Assets (Client via AirSwift), Tucson, AZ, USA

- Engineered end-to-end data pipelines and automated dashboards using **Python, SQL, and Power BI**, transforming complex environmental and closure datasets into actionable insights for strategic decision-making.
- Designed and deployed **Excel-to-SharePoint synchronization automation** using **Power Automate** and the **Microsoft Graph API**, enabling seamless file transfer, metadata updates, and version control across thousands of records daily.
- Developed predictive analytics and statistical models (regression, clustering, XGBoost, neural networks) to identify environmental risk drivers and optimize closure cost forecasting.
- Created interactive **Power BI dashboards** for water quality compliance and legacy asset performance, integrating **EQuIS, Snowflake, and SharePoint** data to visualize exceedances and KPIs.
- Automated generation of regulatory and annual reporting deliverables (Word and Excel outputs) through Python scripting, reducing manual processing time by over **80%** and saving approximately **\$50,000 annually** in external consultant costs.
- Partnered with multi-disciplinary teams (geoscience, environmental, and finance) to translate business questions into data-driven insights aligned with the **BHP Operating System (BOS)** framework.

University Student Web Developer Part time

Feb 2024 - May 2024

Kent State University, Kent, OH, USA [Verify](#)

- Orchestrated a strategic website enhancement plan for the Africana Studies department, which enhanced user retention by 30% and led to a 15% increase in student inquiries, driven by the implementation of SMS alerts.
- Implemented targeted social media ad campaigns that yielded a 50% increase in event attendance; collaborated with design team to create compelling visual content that engaged 10,000+ online followers.

Data Analyst Internship

Feb 2024 - Apr 2024

Datics INC, Charlotte, NC, USA

- Conducted in-depth data analysis to uncover patterns and trends, resulting in a data-driven decision-making approach that boosted sales by 22% and optimized marketing strategies.
- Developed SQL procedures and customized queries to import data from SQL Server into visualization tools, resulting in a 5% increase in data-driven insights for decision-making purposes.
- Engineered a data pipeline using SQL, NumPy, and Pandas, improving data quality and speeding up Tableau reporting by 10%. Worked with analysts to boost forecasting and operational efficiency.

Technical Support Associate

Nov 2021 - Apr 2022

Pioneer Instruments, Hyderabad, Telangana, INDIA [Verify](#)

- Orchestrated project planning and execution for 10+ initiatives, ensuring strict adherence to timelines and deliverables, resulting in on-time project completion rates across the portfolio by a 16%.
- Monitored project budgets, tracked expenses, and prepared financial reports to ensure cost-effectiveness and compliance with financial guidelines.
- Administered project schedules and milestones to streamline project execution, leading to a 25% decrease in project timeline overruns and enhancing project delivery efficiency.
- Collaborated with cross-functional teams to address project-related issues and ensure project success.

Machine Learning with python Student Intern

Mar 2021 - Apr 2021

Verzeo, Bengaluru, Karnataka, INDIA [Verify](#)

- Revamped project management processes by implementing Agile methodologies, resulting in a 40% increase in project efficiency and on-time delivery; elevated programming skills through hands-on experience in Python machine learning techniques.
- Drafted project implementation strategies and testing plans to ensure superior functionality and reliability; conducted in-depth user acceptance testing resulting in a 30% reduction in post-launch defects and a 20% increase in overall system performance.
- Prepared and presented a comprehensive report showcasing project achievements, while tracking weekly progress to ensure timely milestone delivery.

Web Application Development Student Intern

May 2019 - Jun 2019

VVV Infotech, Hyderabad, Telangana, INDIA [Verify](#)

- Developed a web application for a student dashboard at Malla Reddy Engineering College with visualizations to provide faculty members with insights into students' test performances.
- Led the implementation of a roll number registration feature enabling students to monitor attendance and academic performance; increased student involvement by 35% and academic success rates by 20%.
- Collaborated with a team to ensure successful implementation and functionality of the web application.

LICENSES AND CERTIFICATIONS

PL-600: Microsoft Power Platform Solution Expert [Verify](#)

AZ-900: Microsoft Azure Fundamentals [Verify](#)

PL-200: Microsoft Power Platform Consultant [Verify](#)

MTA: Introduction to Python Programming [Verify](#)

PL-300: Microsoft Power BI Data Analyst [Verify](#)

Google Data Analytics Professional Certificate [Verify](#)

PL-900: Microsoft Power Platform Fundamentals [Verify](#)

Cisco: Introduction to Packet Tracer [Verify](#)

DP-900: Microsoft Azure Data Fundamentals [Verify](#)

Cisco: Introduction to Cybersecurity [Verify](#)

PROJECTS

Annual Reporting Automation Suite (PyQt + Python)

Sept 2025

Developed a **PyQt-based desktop application** that automates the generation of BHP's environmental annual report visuals. By selecting a site and reporting year, the tool dynamically produces all required visuals, tables, and metrics using data sourced from **Snowflake** and **EQuIS**. The system integrates multiple Python automation scripts to streamline content creation, reducing manual compilation time by over 80% and saving approximately **\$50,000 annually** in external consultant costs.

Water Quality Monitoring Dashboard (Power BI)

Jun 2025

Developed an enterprise-level **Power BI dashboard** covering all BHP U.S. and Canadian sites to visualize chemical concentration trends (e.g., Al, Sb, As) using data from **EQuIS**, **Snowflake**, and **SharePoint**. Integrated direct links to **As-Built drawings and site-specific well documentation**, allowing engineers and environmental teams to access monitoring history, exceedance data, and compliance reports through a single interactive interface. The tool supports regulatory reporting, closure key risk indicators and long-term environmental monitoring.

SharePoint Sync Automation Flow

Mar 2025

Built a Power Automate flow to synchronize Excel metadata and PDF files with SharePoint libraries using Microsoft Graph API. Incorporated duplicate detection, metadata version control, and daily scheduling at 7 AM MST, eliminating manual uploads across 4,000+ documents.

CTD Processor App (PyQt)

Oct 2024

Created a Python PyQt desktop application for transforming, calibrating, and validating CTD (Conductivity-Temperature-Depth) Excel profiles. Enabled dynamic parameter input, quality control automation, and consistent data output for field teams.

Water Potability Prediction App [GitHub](#)

Jun 2025

This project predicts whether water is potable (safe for drinking) based on various physicochemical properties. It includes a machine learning pipeline built using XGBoost, calibrated for better probability estimates, and a modern Streamlit web app for user interaction.

Analysis of Car Sales Data in Tableau [GitHub](#)

Jan 2024

Incorporated Tableau to analyze car sales data, identify key trends and popular models, resulting in strategic decisions that increased revenue by 12% and improved competitiveness through optimized sales strategies.

Analysis of Netflix Dataset [GitHub](#)

Oct 2023

Analyzed of Netflix content, revealing trends that boosted user engagement. This, coupled with leading a team to improve user experience, resulted in a 30% decrease in customer churn and a 40% increase in satisfaction.

Data Analysis of Walmart Sales [GitHub](#)

Aug 2023

Leveraged data techniques on Kaggle's Walmart dataset, pinpointed top branches and products, handled NULL values, and introduced new features, resulting in a 15% sales boost and project success.

PUBLICATIONS

- Adaptive Reinforcement Frameworks for Multi-Agent Learning Systems [Paper DOI Link](#) Sept 2025
- Self-Evolving AI Workflows: A Formalized Feedback Model for Autonomous Optimization [Paper DOI Link](#) Sept 2025
- Enhancing Association Rule Mining with the CGRG Algorithm: A Cluster-Based Approach [Paper DOI Link](#) Sept 2025
- Enhanced Visual Statistical Inference: Comparative Evaluation with Linear Model Testing [Paper DOI Link](#) Aug 2025
- Comparative Analysis of Distributed Storage Systems: Architectural Design, Performance, and Cost Trade-offs in Modern Cloud Environments [Paper DOI Link](#) Jul 2025
- Hybrid Cloud Analytics for Environmental Data: Integrating EQuIS, SQL Server, Python, and Snowflake for Scalable Compliance Monitoring [Paper DOI Link](#) Jul 2025
- Optimizing Market Making with MDPs [Paper DOI Link](#) Jul 2025
- Design and Implementation of an Automatic Plant Watering Device with 2D Visual Gesture Recognition [Paper DOI Link](#) Jul 2025
- Water Potability Prediction App: A Cost-Free, Streamlit-Based Machine Learning System Using Public Environmental Data [Paper DOI Link](#) Jun 2025
- Value-Based Resource Allocation for Edge Computing: A Market Balancing Approach [Paper Link](#) Mar 2021 – Apr 2021

MEDIA & PRESS COVERAGE

How a new hire tackled 5 giant problems in a global mining company — Featured in WIONEWS (OCT 2025). [Read Article](#)

Using Python Desktop App to Change Excel Workflows: Hours Reduced to Seconds — Featured in Metapress (Sept 2025). [Read Article](#)

Low-Code Vs Traditional Development: Power Apps Fleet Management Case Study — Featured in Free Press Journal (Aug 2025). [Read Article](#)

Building User-Friendly Tech Solutions: Bridging the Gap Between Developers and Users — Featured in Mid-Day / Buzzfeed (Aug 2025). [Read Article](#)

IoT Meets Agriculture: Smart Plant Watering and the Future of Sustainable Farming — Featured in OneIndia (Jul 2025). [Read Article](#)

Tech Alchemist: Pramath Parashar is leading enterprise automation — Featured in European Tech (June 2025). [Read Article](#)