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 (Client, Staffed through Airswift), Tucson, AZ, USA
- Developed and maintained end-to-end data pipelines (ETL) and dashboards using SQL, Python, and Power BI to drive strategic insights and business decisions.
- Collaborated cross-functionally to translate business requirements into data-driven solutions using statistical and machine learning techniques (e.g., regression, clustering, neural networks).
- Enabled data storytelling and risk/opportunity identification through advanced data visualization, modeling, and automation in a fast-paced environment.

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 - May 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 increase 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

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

Self-Evolving AI Workflows: A Formalized Feedback Model for Autonomous Optimization [Paper DOI Link] — Sept 2025

Parashar, Pramath. "Self-Evolving AI Workflows: A Formalized Feedback Model for Autonomous Optimization." International Journal of Emerging Research in Engineering and Technology (IJERET), Vol. 6, No. 3, 2025, pp. 34-40. DOI: 10.63282/3050-922X.IJERET-V6I3P104.

Enhancing Association Rule Mining with the CGRG Algorithm: A Cluster-Based Approach [Paper DOI Link] — Sept 2025

P. Parashar, "Enhancing Association Rule Mining with the CGRG Algorithm: A Cluster-Based Approach," 2025 IEEE/ACIS 23rd International Conference on Software Engineering Research, Management and Applications (SERA), Las Vegas, NV, USA, 2025, pp. 379-392, doi: 10.1109/SERA65747.2025.11154642. keywords: Measurement;Data analysis;Software algorithms;Noise;Decision making;Clustering algorithms;Association rule learning;Usability;Business;Software engineering

Enhanced Visual Statistical Inference: Comparative Evaluation with Linear Model Testing [Paper DOI Link] — Aug 2025

Parashar, Pramath. "Enhanced Visual Statistical Inference: Comparative Evaluation with Linear Model Testing." International Journal For Multidisciplinary Research, Vol. 7, Issue 4, July-August 2025. DOI: 10.36948/ijfmr.2025.v07i04.54656.

Comparative Analysis of Distributed Storage Systems: Architectural Design, Performance, and Cost Trade-offs in Modern Cloud Environments [Paper DOI Link] — Jul 2025

Parashar, Pramath. "Comparative Analysis of Distributed Storage Systems: Architectural Design, Performance, and Cost Trade-offs in Modern Cloud Environments." *International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences*, Vol. 13, Issue 4, July-August 2025. DOI: 10.37082/IJIRMPS.v13.i4.232624.

Optimizing Market Making with MDPs [Paper DOI Link] — Jul 2025

P. Parashar, "Optimizing Market Making with MDPs," 2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0, Raigarh, India, 2025, pp. 1-6, doi: 10.1109/OTCON65728.2025.11071170. keywords: Adaptation models; Technological innovation; Costs; Machine learning algorithms; Profitability; Navigation; Markov decision processes; Heuristic algorithms; Machine learning; Microstructure

Design and Implementation of an Automatic Plant Watering Device with 2D Visual Gesture Recognition [Paper DOI Link] — Jul 2025

P. Parashar, "Design and Implementation of an Automatic Plant Watering Device with 2D Visual Gesture Recognition," 2025 4th OPJU International Technology Conference (OTCON) on Smart Computing for Innovation and Advancement in Industry 5.0, Raigarh, India, 2025, pp. 1-8, doi: 10.1109/OTCON65728.2025.11070726. keywords: Hands; Visualization; Computer vision; Histograms; Soil moisture; Gesture recognition; Skin; Sensor systems; Real-time systems; Extensibility; Automatic Plant Watering; Embedded Systems; NodeMCU ESP8266; Soil Moisture Sensor; BME280; MQTT; Node Red; MQTT.fx; OpenCV; Gesture Recognition; Computer Vision; Scheduler; Real-time Communication; Non-blocking Execution

Water Potability Prediction App: A Cost-Free, Streamlit-Based Machine Learning System Using Public Environmental Data [Paper DOI Link] — Jun 2025

Parashar, Pramath. "Water Potability Prediction App: A Cost-Free, Streamlit-Based Machine Learning System Using Public Environmental Data." International Journal for Latest Research in Philosophy (IJLRP), Vol. 6, Issue 6, June 2025. DOI: 10.70528/IJLRP.v6.i6.1650.

Value-Based Resource Allocation For Edge Computing: A Market Balancing Approach [Paper Link] — Mar 2021 - Apr 2021

MANYAM THAILE,PRAMATH PARASHAR,J HEMANTH,RITHIKA SOMANNGARI, "VALUE-BASED RESOURCE ALLOCATION FOR EDGE COMPUTING: A MARKET BALANCING APPROACH", International Journal of Creative Research Thoughts (IJCRT), ISSN:2320-2882, Volume.10, Issue 4, pp.f270-f279