REVATHI PRABHALA
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WORK EXPERIENCE

Micron Technology **October 2021 – Present**
Data Analyst *Hyderabad, India*

- Developed advanced analytics solutions and Tableau dashboards to enable early detection of defective parts in manufacturing, resulting in $6 million in weekly cost savings.
- Applied Knowledge Data Discovery principles and Python-based machine learning algorithms to predict wafer metrology in real time, achieving over 97% prediction accuracy.
- Conducted hypothesis testing, statistical analysis, and data visualization using Python and Power BI to improve manufacturing yield by 5%.
- Utilized data mining techniques, logistic regression modeling, and structured data analysis to predict the impact of equipment sensor data on defective parts per million (DPPM).
- Built and deployed an automation pipeline using SQL scripting and Python to process live manufacturing equipment data into Snowflake, saving engineers 7 hours per week.
- Designed and implemented efficient training modules leveraging SQL and Python, accelerating new graduate productivity by 30% within the first three months while applying process optimization methodologies.

Deloitte **November, 2016 – September 2019**
Technology Consultant *Hyderabad, India*

- Developed promotions for an ECommerce web application, resulting in a 60% increase in customer business within the first week of launch with Java.
- Collaborated with agile development teams across three different countries to deliver end to end REST API integrations
- Facilitated development and presentation of key deliverables to cross functional teams and e-commerce client's product owners during each sprint as part of an agile project.

EDUCATION

University of Edinburgh (Merit) **August 2020**
Master of Science in Business Analytics *Edinburgh, United Kingdom*

- Utilized regression and classification techniques to predict flight delays and cancellations, achieving low RMSE scores.
- Implemented a Python-based solution to parse and clean JSON data from the Lothian Bus Tracker API, ensuring high data quality.
- Modeled a solid waste disposal optimization problem, reaching an optimality gap of 2%.
- Conducted sentiment analysis on Twitter data to uncover top collaborators and identify potential market expansion opportunities for Mara Seaweed, a leading UK seaweed harvester.
- Predicted Berlin housing prices with 80% accuracy using Random Forests on a Kaggle dataset.

Osmania University (80.3%) **May 2016**
Bachelor of Engineering - Information Technology *Hyderabad, India*

SKILLS

Programming Languages: Python (Pandas, NumPy, Scikit-learn), SQL
Data Science & Analytics: Data Mining, Predictive Modeling, Statistical Analysis, Hypothesis Testing, Regression Modeling, Machine Learning (Supervised/Unsupervised : Linear and Logistic regression, Decision Trees, Random Forests, Naive Bayes, PCA, Clustering, SVM, CNN, RNN)
Data Visualization Tools: Tableau, Power BI, Spotfire
Cloud & Databases: Snowflake, BigQuery, Linux Environments
Automation & Process Optimization: Process Automation Pipelines, Live Data Processing, ETL Development
Other Tools: MS Excel (Advanced), MS PowerPoint (Storyboarding & Presentations)

PUBLICATIONS

Advanced Digital Twin framework for stealth dicing of ultra-thin memory devices using Machine Learning

Materials Science in Semiconductor Processing

CERTIFICATIONS

Google Advanced Data Analytics, Google - Coursera

SQL for Data Science, UC Davis - Coursera