Saloni Mourya

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EDUCATION

Arizona State University, Tempe, AZ Aug 2025
Master of Science, Information Technology 4.00 GPA
Relevant Coursework: Analyzing Big Data, Database management Systems, Data Visualization, Natural Language Processing

Rajiv Gandhi Proudyogiki Vishwavidyalaya, India Aug 2017 – Jun 2021
Bachelor of Technology, Computer Science and Engineering 3.52 GPA

TECHNICAL SKILLS

- **Languages: Python** (NumPy, Pandas, Scikit-learn, Plotly, Matplotlib, Seaborn, SciPy, NLTK), **SQL**
- **Visualization/Big Data Tools:** Tableau, Power BI, MS Excel (Analysis ToolPak), Qlik Sense, Postgres, **ETL Pipelines**, Kibana, Stat Tools
- **Cloud Platform and Tools**: Google Cloud Platform, Google Colab, Git, JIRA, Databricks
- **Statistical Analysis**: Hypothesis testing, Regression analysis, **Time series analysis**, Lean Six Sigma, Machine Learning models, Relational Database Design, Data Preprocessing, Data Interpretation and **Forecasting**, Data Warehousing
- **Certifications:** Google Cloud – Cloud Digital Leader, Tableau for Data Science – Udemy, Skillsoft Badges (Release & Sprint Planning, Agile Development – Scrum, Using Kanban in IT, Software Data Analysis – Project Management Metrics)

PROFESSIONAL EXPERIENCE

Application Development Analyst Dec 2021 – Jul 2023
Accenture Pune, India

- Leveraged advanced Tableau functions and complex calculations to facilitate data-driven decision-making, enhancing strategic insights for banking operations and reducing report generation time by 40%
- Designed and implemented robust ETL pipelines using Python and SQL, automating data extraction, transformation, and loading processes into Tableau, resulting in a 50% increase in dashboard efficiency and performance
- Led an agile project to cut on-demand reporting by 25% by employing data modeling to create an aggregated dataset from disparate sources for self-serve Tableau reporting, decreasing manual reporting efforts by 35%
- Leveraged TensorFlow to develop and integrate machine learning components, resulting in a 15% enhancement in predicting user errors
- Applied statistical analysis techniques such as regression and clustering to derive actionable insights for business decision-making and forecast user behavior trends, contributing to strategic decision-making processes

Application Development Associate Oct 2021 – Dec 2022
Accenture Pune, India

- Employed Python for data wrangling & statistical analysis, improving web app development and user experience
- Boosted operational efficiency by 17% through optimized data collection and analytics, streamlining processes for over 150 datasets and increasing business value by 25%
- Analyzed vast, complex datasets through decision trees & causal inference in machine learning
- Reduced bug resolution time by 14% during critical releases through effective issue resolution & documentation, while utilizing data mining techniques for product analytics & improvement strategies

PROJECT WORK

Predicting Customer Lifetime Value (CLV) Mar 2024 – Jun 2024

- Conducted EDA on the "Online Retail II" dataset from UCI to identify data patterns and relationships
- Applied machine learning algorithms including Linear Regression, Decision Trees, Random Forests, Gradient Boosting, and Neural Networks, achieving a quantitative performance measure with RMSE of 2777.33 using Decision Tree Regressor
- Utilized quantitative insights to optimize marketing strategies, enhancing customer retention and driving revenue growth for e-commerce businesses
- Demonstrated proficiency in translating quantitative findings into actionable insights, facilitating informed decision-making in dynamic market environments

Data Science Job Salaries Dashboard, Arizona State University Feb 2024 – Apr 2024

- Spearheaded development of the "Data Science Jobs Salaries Dashboard", leveraging a Kaggle dataset to conduct in-depth analysis of salary distributions, job classifications, and experience profiles within the realm of data science
- Crafted an interactive dashboard featuring intuitive filters and visually engaging plots, catering to HR Managers, Finance Teams, Compliance Officers, Talent Scouts, Data Scientists, and Department Heads
- Delivered insights on company size, geographic salary distributions, and global salary trends for data science roles, aiding strategic decision-making and talent management