Mohanish Pradeep

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PROFESSIONAL EXPERIENCE

Quality Analyst | Entropik Tech, India   *Mar 2019 - Jun 2022*

- Served as a bridge between development and quality assurance teams, ensuring software quality by meticulously understanding requirements and checking specific functionalities such as speech-to-text translation errors and UI discrepancies.
- Leveraged Confluence to document project requirements, and user stories, fostering transparency and alignment across teams.
- Utilized Jira ticket management software to track project progress, prioritize tasks, and ensure timely resolution of issues.
- Played a pivotal role in consolidating two separate software platforms into a single unified solution, Decode Live, by synthesizing requirements and functionalities gathered from marketing stakeholders.

Project Management Analyst | Anand Associates, India   *Jun 2019 - Feb 2022*

- Led Extraction of Primavera data into Power BI using Power Query, enabling near real-time dashboards for proactive management of overlapping activities and inventory utilization leading to reduction of cost by 15%.
- Leveraged Microsoft Power Automate to parse unstructured invoice data, facilitating precise cost management and inventory management by scrutinizing stock levels and monitoring consumption patterns.
- Collaborated with geotechnical engineers to analyze soil reports, employed python libraries such as Numpy, Matplotlib for data manipulation and visualization to suggest suitable ground improvement and design changes for construction projects.
- Leveraged total station points for precision measurements, layout, and marking ensuring accurate positioning of construction elements in tune with design plans, resulting in quality control for maintaining construction standards.
- Dynamic Analysis of Structures using advanced modelling tools (E-Tabs) for design of components and monitored execution.
- Utilized ANSYS, E-TABS, and AutoCAD for site execution, optimizing design efficiency and project outcomes.

MMG Construction: Customer Satisfaction Analysis and Enhancement Project

- Collaborated with senior marketing professionals to design surveys and collect customer feedback, employing Excel and Tableau for data analytics and decision-making. Played a pivotal role in establishing a finance corporation, securing unsecured loans with collateral, resulting in a 25% increase in conversion rates.
- Identified customer preferences and market trends, guiding pricing strategies to maximize return on investment and meet customer needs effectively, performed clustering to gain comprehensive insights into investor mindset.
- Implemented innovative solutions, such as video testimonials and catalog documentation, to address customer concerns and build trust significantly enhancing customer satisfaction scores by 20%.

Project Management Trainee|Build Axis Architects and Engineers   *Jul 2016 - Aug 2017*

- Oversaw $3M worth of client projects and optimized operations, resource planning based on primavera forecasting and MS-Excel functionalities (VLOOKUP, pivot tables) to dynamically manage the workforce, maximizing savings and efficiency.
- Optimized construction materials procurement through cost-benefit analysis and negotiations, yielding 10% higher profits and ensuring consistent material supply.
- Streamlined legal communication by arranging expert meetings to address client complications, ensuring compliance through meticulous documentation cross-checks and comprehensive briefings to legal experts.

PROJECTS

Credit card fraud detection Analysis || Python, PolynomialFeatures, GridSearch CV, Pipeline, Seaborn

- Enhanced the model with advanced pre-processing (SMOTE, one-hot encoding, normalization, feature engineering).
- Utilized supervised and unsupervised models (Logistic regression, KNN, Random Forest, Naïve Bayes, SVM, PCA+RF).
- Implemented hyperparameter tuning and iterative optimization, achieving 80% recall.

Strategic Insights for sales Acceleration || NLP, Excel functions, PivotTables

- Developed dynamic visualization dashboards for strategic planning, calculated price elasticity for multiple brands to gain into consumer behavior. Chosen among top teams to present the project to the company.
- Conducted NLP analysis for sentiment classification of Brand reviews from online Platforms.

Enhancing Rice Crop Discovery benchmark with Advanced ML Techniques

- Significantly improved accuracy compared to benchmark model through advanced scaling and ML models (SVM, KNN, Random Forest, Gradient boosting and Ensemble) utilizing the best model for predicting with more than 90% accuracy.
- Utilized one year of crop phenology data,implemented filtering techniques for error reduction resulting in enhanced accuracy.

Big Data Project || VMWare, HDFS, Cloudera Impala, Power BI, R-Programming

- Developed a data pipeline using Hadoop's HDFS architecture for a Trucking company, ingesting CSV files via VM Ware, performing manipulation, and visualizing insights through Power BI and Tableau.

- Leveraged DAX queries in Power BI for column creation and R-Language for regression analysis, facilitating comprehensive data-driven decision-making and actionable insights.

Sentiment Analysis Project || LLM, Prompt Engineering, Logistic regression, Bernoulli Naïve Bayes, TextBlob
- Analyzed restaurant review dataset using TextBlob library to generate sentiment scores (Positive, Neutral, Negative) based on polarity scores. Utilized scores for exploratory data analysis (EDA), examining their distribution across star ratings.
- Trained the Logistic regression, Bernoulli Naïve Bayes models to review the performance on unseen dataset, the models were evaluated based on ROC curves and Confusion matrix resulting in optimum model selection for deployment.
- Utilized over 1000 reviews to generate Michelin star selection criteria by training it over an LLM (prompt engineering).

EDUCATION

The University of Texas at Dallas   *May 2024*
Master of Science, Business Analytics
Rastreeya Vidyalaya College of Engineering (RVCE), Bangalore | India   *Jun 2019*
Master of Technology, Structural Engineering (Dynamic structures, finite element analysis, Advanced design)
Sri Jayachamarajendra College of Engineering (SJCE), Mysore | India   *May 2016*
Bachelor of Technology, Civil Engineering   **GPA: 3.6**

SKILL SET

Certifications   AWS Cloud Fundamentals, SQL, Python Data structures, Oracle DB
Programming   R, Python – Pandas, NumPy, Scikit-learn, Matplotlib & NLTK, Linux Scripting, C, SpaCy, ANSYS, MATLAB, SAS
Tools/Databases   AWS, Spyder, GitHub (GitLab), MySQL, Microsoft SQL Server, MongoDB, JavaScript, Hadoop Framework,
Jira, Confluence, Snowflake, KNIME and Alteryx core.
Statistical Libraries   Excel, VBA, SQL, Alteryx, Supervised, Unsupervised, Data Mining, Statistical Analytics , Monte Carlo method
Analytical Tools   Tableau, Microsoft Power BI, Microsoft Power Automate, Microsoft Office, SharePoint, PySpark

RELEVANT COURSEWORK

- Advanced Statistics, Modelling with Python, Machine Learning, Predictive, NLP, Prescriptive, Database, Big Data and Cloud Computing