



AMAL DEV

Bengaluru, Karnataka, India
amaldev938@gmail.com / +91-8086497449

PROFILES

- <https://www.linkedin.com/in/amal-dev-506684249/>
- <https://github.com/AmalDev6431>
- <https://public.tableau.com/app/profile/amal.dev1445>

CAREER OBJECTIVE

Have gained good exposure to understand various aspects of **Data Science** through Masters Program which has developed a great sense of confidence at a very personal level. Hence, I seek a challenging position in the area of **Data Science, Machine Learning, Data Analysis & related fields** where I can share my skills and expand my capabilities further in the pursuit of progressive career advancement.

CERTIFICATION

1. Simplilearn Certified

- Data Science with Python, R
- Advance Machine Learning
- Tableau 10
- Big Data Hadoop & Spark Developer
- SQL Training
- Data Science Capstone

2. Other Certifications

- Deep Learning with TensorFlow - ML0120EN (Provided by BigDataUniversity)
- Data Analysis with Python - DA0101EN (Provided by IBM)
- Deep Learning with TensorFlow - ML0120EN (Provided by IBM)

EXPERIENCE

Data Science Intern at OASIS INFOBYTE - 10/15/2023

- Completed a 1-month internship focused on Data Science.
- Gained valuable experience in data analysis techniques and tools.
- Demonstrated exceptional skills in data analysis and data science techniques, earning recognition for outstanding performance throughout the internship.

PROJECTS

1. Data Science Capstone: Diabetes Prediction

- Developed a predictive model using data science techniques to determine if a patient has diabetes based on diagnostic measurements.
- Conducted thorough data exploration and descriptive analysis, addressing missing values and visualizing variable distributions.
- Utilized scatter charts and correlation analysis to examine relationships between variables.
- Implemented appropriate classification algorithms, such as logistic regression and random forest, and compared their performance with the K-nearest neighbors (KNN) algorithm.

- Generated a comprehensive classification report, analyzing sensitivity, specificity, and the area under the curve (AUC), to evaluate the model's performance.
- Created an interactive dashboard in Tableau, incorporating visualizations like pie charts, scatter charts, histograms, and a heatmap, to provide actionable insights

2.Data Science Capstone: Real Estate Mortgage Prediction

- Built a statistical model using data science techniques to predict potential monthly mortgage expenses for each region based on monthly family income and rental data.
- Conducted exploratory data analysis (EDA) to gain insights into population density, age demographics, and correlations among relevant variables.
- Developed a linear regression model to predict the total monthly expenditure for home mortgages, achieving an R-squared value of 60% and above.
- Created a dashboard in Tableau with visualizations, including box plots, pie charts, geo-maps, and correlation matrices.

3.Machine Learning: Mercedes-Benz Test Bench Optimization

- Pre-processed the dataset, handling missing values and applying label encoding.
- Utilized dimensionality reduction techniques to improve model performance.
- Built an XGBoost model to predict test time for different car configurations, contributing to faster testing and lower carbon dioxide emissions through optimization.

4.Deep Learning: House Loan Data Analysis

- Pre-processed the dataset, handling null values and balancing the imbalanced data.
- Plotted the data distribution and encoded necessary columns.
- Built a deep learning prediction model to analyze house loan data

EDUCATION

Master's Program – Data Scientist : Data Science & Business analyst
Simplilearn in collaboration with IBM

2023

B.Com : Computer Application

2018

SNGIST Arts And Science College

TECHNICAL SKILLS

- Python
- **Data Manipulation :** NumPy, Pandas
- **Data Visualization :** Matplotlib, Seaborn, Tableau
- **Machine Learning**
- **Deep Learning**
- **Big Data Technologies :** Hadoop, Spark
- **Data Cleaning and Preprocessing :** Data Wrangling, Feature Scaling
- **Data Analysis**
- **Ensemble Methods :** Random Forest, Gradient Boosting
- **Data Imputation :** SimpleImputer 16. Class Imbalance Handling: SMOTE
- **Data Science Tools :** Jupyter Notebook, Google Colab
- **Data Science**

ADDITIONAL INFORMATION

- **Languages :** English, Malayalam and Hindi.
- **Soft Skills :** Instilling Teamwork, Discipline and Perseverance, Time management skills, Adeptly organizing tasks and priorities to meet deadlines and achieve goals, My ability to work efficiently and independently makes me well-suited for both individual and team-oriented projects.
- **Hobbies :** Badminton and Football.