ANANDAKRISHNAN N

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Objective

Aspiring data scientist with a strong foundation in statistical analysis, machine learning and data visualization. Eager to leverage skills in python and SQL to extract insights from complex datasets and contribute a data-driven decision-making. Seeking an entry-level position in a dynamic organization where I can apply my analytical abilities and grow as part of a collaborative team.

Education

M.SC., | STATISTICS | GOVERNMENT ARTS COLLEGE, COIMBATORE | 2024

- Major: Statistics
- Minor: Database Management System
- Related coursework: Introduction to SQL, SQL Intermediate, Python for Data Science

DATA SCIENCE AND PYTHON | 3 – MONTH COURSE | QTREE TECHNOLOGIES | 2024

- Relevant Skills: Machine learning, Data Analysis, Data Wrangling, Python, Database

B.SC., | MATHEMATICS | GOVERNMENT ARTS COLLEGE, COIMBATORE | 2022

- Major: Mathematics
- Minor: Computer science

Skills

PROGRAMMING LANGUAGES:

- Python (Numpy, Pandas, Matplotlib, Seaborn, Scipy, Scikit-Learn, XGBoost), SQL

MACHINE LEARNING:

- Supervised Learning: Linear and Logistic Regression, Decision Trees, Support Vector Machines (SVM)
- Unsupervised Learning: Clustering, Principal Component Analysis

DATA VISUALIZATION:

- Power BI, Tableau, Matplotlib, Seaborn

DATABASES:

- SQL Server, MySQL

TOOLS:

- Excel, Jupyter Notebook, GitHub, Power BI, Tableau, MySQL

OTHER SKILLS:

- Data Wrangling, Data Analysis, Statistical Modeling, Machine Learning

Projects

MASTER'S PROJECT | A STUDY ON AWARENESS AND PERCEPTION OF ELECTRIC VEHICLES IN TAMILNADU

- Performed in-depth analysis on a dataset to identify trends and relationships using statistical techniques
- Univariate Analysis: Explored distributions of key variables (gender, age)
- Bivariate Analysis: Investigated relationships between variables (types of vehicles vs gender, age)
- Chi-Square Test: Assessed associations between categorical variables (e.g., gender vs people's opinions)

WINE QUALITY PREDICTION

- Developed a predictive model using Random Forest Classifier to predict the quality of wine with 92.81% accuracy
- Cleaned, analyzed, and visualized data using python and presented findings

MEDICAL INSURANCE COST PREDICTION

- Implemented a machine learning model using Linear Regression to predict medical insurance cost
- Cleaned and processed raw data using python and performed feature engineering to improve model performance
- Visualized key trends and insights with Matplotlib and Seaborn to present findings

CAR PRICE PREDICTION

- Built a machine learning model using Lasso Regression that achieved 87.09% accuracy in predicting car prices based on various features like age, mileage and fuel type
- Cleaned and preprocessed the dataset (handled missing values, feature scaling)
- Evaluated model performance using R-squared error

DIABETES PREDICTION

- Developed a machine learning model to predict the likelihood of diabetes based on patient health data (age, BMI, etc.)
- Preprocessed data by handling missing values and applied StandardScaler for feature scaling
- Implemented model performance Support Vector Machine (SVM) classifier to separate diabetic and non-diabetic cases

Languages

- Tamil
- English