Dhanush Palanisamy

Junior Data Analyst

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Summary

Data Analyst with a strong foundation in SQL, Python, Excel, and Power BI. Skilled in cleaning, analyzing, and visualizing data to generate insights and support data-driven decision-making. Interested in collaborating on meaningful analytical work in fast-paced environments.

Skills

Programming & Querying: SQL, Python
Data Visualization Tools: Advanced MS Excel, Power BI, Tableau
Analytical Abilities: Data Cleaning, Exploratory Data Analysis (EDA), Insight Generation, Descriptive Statistics

Experience

Python for Data Science Intern **August 2024 – September 2024**
ETHER INFO TECH *(Coimbatore)* *Modules Used: NumPy, Pandas, Scikit-learn*

- **Processed, cleaned, and analyzed large datasets** (over 150,000+ records) using Python (Pandas, NumPy) to derive business insights and support decision-making.
- Built data visualization dashboards using Matplotlib and Seaborn, enabling teams to identify trends and **improve reporting efficiency by 35% .**
- Applied machine learning models (Scikit-learn) for predictive analysis, including regression and classification tasks, improving forecast accuracy by 20%.
- Documented project workflows, Python scripts, and data pipelines to ensure reproducibility and knowledge transfer across teams.

Projects

Customer Churn Analysis | *Python, Seaborn, Matplotlib* **May 2025 – June 2025**

- **Analyzed behavior of 7,043 telecom customers** to identify churn patterns based on tenure, contract type, and monthly charges.
- Explored service usage patterns, contract types, and payment methods through visual storytelling with Seaborn and Matplotlib, highlighting churn drivers.
- **Developed a machine learning pipeline with Random Forest**, performing hyperparameter tuning and validating results using precision, recall, and ROC-AUC metrics.
- Compiled results in a clear Jupyter Notebook report, linking actionable insights with churn risk segmentation to support business strategy and decision-making.

Loan Approval Prediction | *Python, Pandas, Scikit-Learn* **August 2025 – September 2025**

- **Cleaned and prepared loan application dataset (598 records, 13 fields)** using Pandas, handling missing values and feature engineering for model readiness.
- Conducted exploratory data analysis (EDA) with Matplotlib and Seaborn to uncover patterns in income, loan amount, and credit history.
- Built and optimized machine learning models (Logistic Regression, Decision Tree, Random Forest) in Scikit-Learn, **achieving 82% accuracy with GridSearchCV.**

Certifications

- **Data Analysis with Python – IBM (2024):** Confirms successful completion and a passing grade in the Data Analysis with Python course provided by IBM.
- **Cybersecurity Job Simulation - Forage (2024):** Certifies completion of practical tasks in cybersecurity, including analyzing fraud data and building an email classifier.
- **Participating in International Conference – ICOST (2024):** A Review on Empowernment of Rural India through E-Governance.

Education

B.Tech. Artificial Intelligence and Data Science **Expected Upto: 2026**
Mahendra College of Engineering, Salem *CGPA: 8.0 / 10*