

BARATH K M

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PROFESSIONAL SUMMARY

Data Science intern candidate with hands-on experience in Python, SQL, exploratory data analysis, and machine learning using real-world datasets. Skilled in building data pipelines, performing feature extraction, developing ML models, and visualizing insights to support data-driven decision-making.

TECHNICAL SKILLS

Programming: Python, SQL

Analytics: Exploratory Data Analysis, Statistical Analysis

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn

Data Handling: Data Cleaning, Data Transformation, Data Validation, ETL Pipelines

Libraries: Pandas, NumPy, Scikit-learn

Databases: MySQL, PostgreSQL

Tools: Excel (Pivot Tables, Power Query), Jupyter Notebook, Git, VS Code

PROJECTS

Real-Time Attention Monitoring Pipeline (Face Fusion)

- Engineered a real-time video analytics pipeline sustaining 30+ FPS, improving monitoring reliability.
- Optimized preprocessing operations, boosting end-to-end throughput by 22%.
- Analyzed 10,000+ frames to extract gaze and head-pose metrics, enhancing model accuracy.

NLP-Based Document Summarization Pipeline (T&C Summarizer)

- Developed an extractive NLP summarizer using TF-IDF, SpaCy, and NLTK, achieving 60–70% text reduction.
- Implemented a complete ETL pipeline for ingestion, cleaning, vectorization, and scoring.
- Improved semantic relevance of summaries, achieving 85% similarity in evaluation tests.

Data Visualization & BI Dashboard

- Built interactive dashboards using Power BI and Python to visualize sales and customer trends.
- Streamlined reporting workflows, reducing manual data preparation time by 30%.
- Identified key business insights, boosting reporting efficiency and decision-making accuracy.

INTERNSHIP EXPERIENCE

Data Science Intern – SmartEd Technologies

Feb 2025 – Apr 2025

- Performed data cleaning, preprocessing, and exploratory data analysis (EDA) on real-world datasets using Python.
- Built and evaluated machine learning models using Scikit-learn for predictive analysis.
- Created visualizations and dashboards to communicate insights to stakeholders.

Full-Stack Intern – Cloud Logic Technologies

Jun 2024

- Supported API development and optimized backend pipelines, improving processing speed by 20%.
- Built reusable components that boosted maintainability and reduced development effort.
- Assisted in CI/CD operations, reducing deployment issues by 15%.

EDUCATION

B.Tech – Artificial Intelligence & Data Science

Expected May 2026

IFET College of Engineering, Villupuram

CGPA: 7.7/10

HSC (12th)

2022

Sacred Heart Convent Anglo-Indian Higher Secondary School

70%

CERTIFICATIONS

Power BI (Simplilearn) | SQL Basics (Simplilearn) | Python for Data Science (SmartEd)

Data Analytics (NoviTech) | CCNA (Cisco)