

PRASANNA V

Data Analyst

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Mecheri, Salem, Tamil Nadu – 636451

Data Analysis · SQL · Power BI · Python · ETL · DAX · MySQL · Machine Learning · Data Visualization · EDA
· Statistical Analysis

PROFESSIONAL SUMMARY

Final-year B.Tech student in Artificial Intelligence & Data Science with hands-on experience in Data Analysis, SQL, and Power BI. Skilled in Python and MySQL for data cleaning, exploratory data analysis (EDA), and statistical analysis, with practical knowledge of ETL pipelines, Star Schema modelling, and DAX. Completed two end-to-end data analysis projects, an ML internship with measurable accuracy improvements, and led a team for an offline AI voice assistant as a final-year capstone. Actively seeking a Data Analyst internship or full-time opportunity to apply analytical skills in a data-driven environment.

TECHNICAL SKILLS

Data Analysis & BI: Power BI, DAX, Power Query (ETL), Star Schema, Microsoft Excel (Advanced), Data Visualization

Data Science & Analytics: Exploratory Data Analysis (EDA), Data Cleaning, Statistical Analysis, Feature Engineering, Pandas, NumPy

Programming & Query: Python, SQL, MySQL, MongoDB, Scikit-Learn, XGBoost, Flask

AI & Machine Learning: Machine Learning, Regression, Classification, NLU/NLP, Faster-Whisper, TTS, Prompt Engineering

Web & Dev Tools: HTML, CSS, JavaScript, Node.js, Express.js, Git, GitHub, VS Code, Anaconda, Jupyter Notebook

INTERNSHIP EXPERIENCE

Machine Learning Intern – ABE Group of Companies Aug 2024

Salem, Tamil Nadu | Python · Scikit-Learn · Pandas · XGBoost · Feature Engineering · EDA

- Performed exploratory data analysis (EDA) and data cleaning on real-world datasets to identify patterns and prepare data for modelling.
- Applied supervised learning algorithms (classification and regression) using Scikit-Learn, Python, and Pandas with rigorous feature engineering to reduce noise.
- Upgraded the model from baseline to XGBoost, boosting predictive accuracy from 74.2% to 87.5% and F1-Score from 0.59 to 0.84.

MERN Stack Intern – Livewire Salem Feb 2025

Salem, Tamil Nadu | Node.js · Express.js · MongoDB · REST API

- Implemented full CRUD operations and structured data flow between a React frontend and MongoDB, reinforcing practical database management skills.
- Built RESTful API endpoints with Node.js/Express.js, gaining hands-on exposure to back-end data pipelines and integration patterns.

PROJECTS

Smart Banking Engine github.com/PrasannaV569/Smart-Banking-Ledger-Fraud-Detection-System

MySQL · Database Triggers · Window Functions · Statistical Analysis · Risk Analytics

- Designed a 3-table relational banking schema (Customers, Accounts, Transactions) with cascading foreign keys and referential integrity.
- Engineered a database trigger to prevent overdrafts, blocking all insufficient-fund withdrawals at the database level.

- Built a geo-velocity fraud detection trigger that flags physically-impossible cross-location transactions occurring within 10 minutes.
- Leveraged SQL Window Functions (SUM OVER PARTITION BY) to compute running ledger balances per account for real-time auditability.

Global AI Workforce & Salary Insights Dashboard

Dataset: Kaggle

Power BI · DAX · Power Query (ETL) · Star Schema · Data Modelling · EDA

- Produced an enterprise-grade 3-page interactive Power BI report tracking global AI hiring volumes and compensation benchmarks.
- Developed a Star Schema data model (Fact_Postings + 4 dimension tables) with a Many-to-Many skill bridge table for normalized skill mapping.
- Conducted Power Query ETL and data cleaning to split pipe-delimited skill columns into 93 unique normalized skill records.
- Configured native Field Parameters for dynamic axis switching across 5 dimensions (Job Category, Experience, Industry, etc.).

Gold Price Tracker & Predictor

github.com/PrasannaV569/GoldRatePrediction

Python · Flask · REST API · Statistical Analysis · Machine Learning

- Fetched live gold price data from the Gold API, performed EDA, and visualized trends on a Python Flask web dashboard.
- Trained a predictive ML model on historical gold price datasets to forecast the next trading day's rate.
- Achieved a test-set RMSE of 0.8156 and training-set RMSE of 0.7234, demonstrating strong model generalization.

Cortex – Offline AI Voice Assistant | Team Lead

github.com/PrasannaV569/Cortex

Python · Faster-Whisper · NLU · NLP · TTS

- Led a cross-functional team to deliver a fully offline AI voice assistant with 100% local execution; architected the custom JSON-trained NLU engine for intent classification with zero external API dependency.
- Delivered 92.7% speech recognition accuracy (200+ commands), 95.1% NLU intent accuracy, and 463ms average response latency — all validated in varied acoustic environments.

EDUCATION

B.Tech – Artificial Intelligence & Data Science

2022 – Jun 2026 (Expected)

AVS Engineering College, Salem | CGPA: 8.0 / 10 (up to 7th Semester)

HSC (Class XII)

May 2022

GBHS School, Mecheri | 443 / 600 (73.8%)

SSLC (Class X)

Aug 2020

GBHS School, Mecheri | 378 / 500 (75.6%)

CERTIFICATIONS

- SQL Intermediate – HackerRank
- Python Basic – HackerRank
- Machine Learning Basic – Vodafone Idea Foundation
- Data Analysis with Python – IBM / CognitiveClass
- Python for Data Science – IBM / CognitiveClass
- DCA (Diploma in Computer Applications) – CCI Computer Education
- Unity Essentials Pathway – Unity Technologies

LANGUAGES

Tamil:

Read, Write, Speak

English:

Read, Write, Speak

Kannada:

Speak