

IRENE M A *M.Sc. Decision and Computing Sciences (Integrated)*

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 Coimbatore

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PROFILE

Detail-oriented Data Analyst with experience in data analysis, dashboard development, and predictive modeling. Skilled in Python, SQL, Excel, Power BI, and data visualization with hands-on experience handling structured datasets and generating business insights. Strong analytical, problem-solving, and collaboration skills with an interest in financial markets and data-driven decision making.

INTERNSHIP EXPERIENCE

Data Analyst Intern
ELEKTRO

06/2024 – 12/2024 | Bangalore

- Developed an energy optimization platform using Python, SQL, and machine learning models including Ridge, Lasso, Random Forest, and XGBoost to generate analytical business insights.
- Performed data preprocessing, validation, and analysis on structured datasets to improve reporting accuracy and decision-making.
- Designed and implemented machine learning models, including a Feed-Forward Neural Network (FNN) using TensorFlow/Keras.
- Collaborated with cross-functional teams to build interactive analytics applications using Flask and Streamlit.
- Created dashboards and real-time visualizations to monitor trends, KPIs, and operational insights.
- Conducted model testing, validation, and optimization using GridSearchCV to improve reliability and performance.
- Assisted in deployment support, troubleshooting, workflow improvements, and documentation of analytical processes.

EDUCATION

M.Sc. Decision and Computing sciences (Integrated)
Coimbatore Institute Of Technology
7.60 CGPA(9th sem)

2021 – Present | Coimbatore

HSC
PSGR Krishnamal Higher Secondary School
Percentage: 87%

2020 – 2021 | Coimbatore

TECHNICAL SKILLS

Programming & Tools — Python, SQL(Postgre SQL) , Excel, Power BI, Streamlit, Flask, REST APIs, TensorFlow, Pytorch, Pandas, Scikit-learn
Libraries & Technologies: — Pandas, NumPy, Scikit-learn, TensorFlow, Keras
Data & Analytics — Data Analysis, Data Validation, Data Visualization, Dashboarding, Predictive Analytics, Data Processing
Database & Cloud: — DBMS, Azure, SQL Databases
Soft Skills — Analytical Thinking, Attention to Detail, Communication, Team Collaboration, Adaptability
Area Of Interests — Data Analytics, Financial Markets, Business Intelligence, Data Operations

PROJECTS

Digital Twin-Based Predictive Analytics System for Manufacturing

- Developed a real-time Digital Twin system for manufacturing analytics
- Implemented demand forecasting using Prophet, LSTM, and XGBoost
- Built simulation and scenario analysis modules for what-if predictions
- Developed recommendation engine for prescriptive decision-making
- Created interactive Streamlit dashboard and chatbot interface
- Tools & Technologies: Python, Pandas, NumPy, Prophet, LSTM, XGBoost, Streamlit, Plotly, Monte Carlo Simulation, ML Algorithms

Analyse This

- Developed an interactive Streamlit-based analytics application for automated statistical and visual analysis of uploaded datasets.
- Implemented real-time data processing, visualization, and reporting features to improve analytical efficiency and user experience.
- Integrated data analysis workflows and visualization techniques for faster business insights generation.
- Tools & Technologies: Python, Streamlit, Pandas, Matplotlib

Azure Real Time Governance

- Developed a real-time data governance and management system with role-based access control and SQL-driven backend operations.
- Implemented automated file handling, user data management, and administrative workflows to improve operational efficiency and data accessibility.
- Tools & Technologies: Python, Azure, SQL

CERTIFICATES

Data science with python — Issuer: IIT Madras, **Data visualization with Power BI** — Issuer: Great Learning, **Data Analytics** — Issuer: CISCO, **SQL - Basic** — Issuer: hackerRank, **SQL - Intermediate** — Issuer: hackerRank

CO-CURRICULAR

Cultural Head
Melinia and other inaugural events - Coimbatore Institute Of Technology