ASWIN KUMAR R

Associate Machine Learning Engineer | Junior Data Scientist

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CAREER OBJECTIVE

Aspiring Machine Learning Engineer with hands-on experience in Deep Learning, Generative AI, NLP, and End-to-End ML Pipelines. Skilled in Python, SQL, MLOps tools, and cloud based model deployment. Seeking an opportunity to contribute to designing, training, and deploying scalable, production grade ML systems that drive data-driven business decisions.

TECHNICAL SKILLS

- **Programming**: Python, SQL
- **Databases**: MySQL (Joins, Subqueries, CTEs, Views, Stored Procedures)
- **Data Analysis**: Pandas, NumPy, Matplotlib, Seaborn, Exploratory Data Analysis (EDA), Data Cleaning
- **Machine Learning**: Scikit-learn, XGBoost (Regression, Classification, Clustering), Feature Engineering, Model Evaluation, Hyperparameter Tuning
- **Deep Learning**: TensorFlow, Keras (CNN, RNN, LSTM, FNN), Neural Network Training, Model Optimization
- **Generative AI & NLP**: LLMs (OpenAI, Mistral), LangChain, Hugging Face Transformers, RAG Pipelines, spaCy, NLTK, Prompt Engineering, Text Preprocessing
- **Statistical Methods**: Descriptive & Inferential Statistics, Hypothesis Testing, Correlation Analysis, ANOVA, Probability Models
- **Data Engineering**: Apache Airflow, Docker, ETL Pipelines, Data Wrangling, Data Warehouse Concepts, Workflow Automation
- **Visualization & BI Tools**: Power BI (DAX, KPIs, Drilldowns), Tableau, Excel Dashboards
- **Frameworks & Tools**: Flask, Django, FastAPI, Git, GitHub, Jupyter Notebook, VS Code
- **Soft Skills**: Problem Solving, Communication, Teamwork, Attention to Detail, Analytical Thinking, Leadership

PROJECT PROFILE

Domino's Sales Prediction | Time Series Forecasting & Deep Learning Link   Mar - 2025
Python, ARIMA, LSTM, TensorFlow, Pandas
- Analyzed 2+ years of historical sales data using EDA methods.
- Developed ARIMA, Regression, and LSTM models achieving **15% improvement in MAPE**.
- Delivered insights leading to **20% improvement in sales planning accuracy**.
- Built reusable ML pipeline with model training, evaluation, and forecasting.

Disease Predictor | LLM-Powered Health Assistant Link   Jul - 2025
Mistral, Unsloth, NLP, Streamlit, Hugging Face, spaCy

- Built an AI health assistant using **Mistral LLM** for symptom-based predictions.
- Fine-tuned LLM using **Unsloth** and enhanced prediction confidence with NLP preprocessing.
- Integrated transformer models with prompt-engineering and real-time inference.
- Deployed the solution using Streamlit for seamless user interaction
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Sales and Budget Analysis, Power BI [Link](#)   Oct - 2024
Power BI, Excel, KPIs, DAX

- Created interactive dashboards with drilldowns, heatmaps, and KPI metrics.
- Performed variance analysis to identify gaps between budget vs. actual performance.
- Automated reporting to support decision-making and financial insights.

EDUCATION

Vins Christian College of Engineering, Anna University   Aug 2020 - Jun 2024
B.E. - Computer Science Engineering | **CGPA**: 7.86/10

Hindu Vidyalaya Matriculation School   Jun 2019 - Mar 2020
Higher Secondary Certificate (HSC), Computer Science | **Scored**: 67%

COURSES & CERTIFICATIONS

- **Data Science Course** - Besant Technologies (BDreamz) (Mar 2025)
- **PwC** - Data Analytics Virtual Intern | Call Centre Trends & Customer Retention (Oct 2024)
- **TCS** - Data Visualization Virtual Intern | Empowering Business with Effective Insights (Nov 2024)
- **Accenture** - Data Analytics and Visualization Virtual Intern (Dec 2024)
- Complete Data Science Course (2024–2025)

LANGUAGES

- English
- Tamil
- Malayalam