

## Aravinth M

Machine Learning Engineer | Data Scientist | AI Specialist

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### PROFESSIONAL SUMMARY

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**Senior Machine Learning & Full Stack Engineer** with 11+ years of experience in building scalable, data-driven applications and predictive systems. Skilled in supervised and unsupervised learning, model optimization, and feature engineering. Looking to contribute to innovative ML solutions that drive measurable impact in production environments.

### WORK EXPERIENCE

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#### Senior Software Engineer

*Qoruz, Bengaluru, IN*

*Jan 2023 – Feb 2025*

- Developed systems for campaign tracking and user behaviour prediction, improving targeting accuracy and ROI.
- Designed real-time data workflows and reporting pipelines, reducing decision latency, and enabling faster insights.
- Integrated backend intelligence into product dashboards, driving more data-informed user experience strategies.
- Implemented performance optimizations that cut system response time by over 60%, improving overall platform efficiency.

#### Team Lead

*Isoftcells, Bengaluru, IN*

*Jan 2021 – Jan 2023*

- Led development of AI-powered recommendation systems for products like *TikTik* and *Ai-Transporter*, increasing user engagement by 28% through supervised learning and collaborative filtering.
- Deployed scalable MLOps infrastructure using Docker, FastAPI, MLflow, and CI/CD pipelines, reducing model deployment time by 40% and improving release frequency.
- Trained and optimized ML models (XGBoost, RandomForest) with AUC > 0.87, implementing model monitoring, drift detection, and hyperparameter tuning best practices.

#### Module Lead Software Engineer

*Galaxy Weblinks, Madurai, TN*

*June 2014 – Jan 2021*

- Led development of web-based CMS platforms and dashboards using PHP, CodeIgniter, and MySQL, improving client delivery speed by 30% across healthcare and logistics domains.
- Built RESTful APIs and integrated them with frontend systems supporting seamless communication between modules.
- Explored machine learning techniques (linear regression, decision trees, basic clustering) to introduce early predictive analytics features in internal tools.
- Applied EDA and feature engineering using Python, Pandas, and scikit-learn, improving model readiness and reporting clarity by 25%.

### SKILLS

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- **Programming Languages:** Python (Core, Flask, FastAPI, sqlalchemy ORM, sql mesh)
- **Data Analysis & Processing:** NumPy, Pandas, Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering
- **Machine Learning:** Supervised and Unsupervised Learning, Clustering (K-Means, DBSCAN), Dimensionality Reduction (PCA, t-SNE), Scikit-learn, XGBoost, LightGBM, CatBoost
- **AI:** Gen AI, Agentic AI, LLM, VectorDB, Langchain, LangGraph, HuggingFace
- **Natural Language Processing:** NLTK, SpaCy, Hugging Face Transformers, TextBlob
- **Model Evaluation:** Cross-Validation, Confusion Matrix, ROC/AUC, Precision, Recall, F1 Score, MSE, RMSE
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Tableau (Basic), Power BI (Basic), Data Studio
- **Databases:** MySQL, MariaDB, MongoDB, Snowflake
- **Cloud & Deployment:** Docker, DockerHub, Kubernetes, Pyspark, ECR, AWS ECS, AWS SageMaker, AWS Lambda, Jenkins, Apache, Nginx, cPanel

### EDUCATION

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**B.Tech in Information Technology**

**June 2014**

*Pandian Saraswathi Yadav Engineering College, Madurai, TN*