

MUKESH ARUCHAMY

Machine Learning Engineer | Computer Science & Engineering

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PROFESSIONAL SUMMARY

Motivated Machine Learning enthusiast with strong foundations in Python, data preprocessing, and machine learning algorithms. Hands-on experience in building and evaluating models using Decision Trees, Random Forest, KNN, and K-Means. Skilled in data analysis using Pandas and NumPy, with practical exposure through academic projects and certified data science training. Eager to contribute to AI-driven solutions as a Machine Learning Engineer.

INTERNSHIP EXPERIENCE

Machine Learning Intern Rubix | Jan 2026 – Present

- Performed data preprocessing, feature engineering, and model building.
- Implemented machine learning algorithms for real-world datasets.
- Performed model evaluation using accuracy and performance metrics.
- Used Python, Pandas, NumPy, and Scikit-learn for development.
- Improved model performance through data preprocessing and tuning techniques.

PROJECTS

Blockchain-Based Agriculture Supply Chain System

- Developed a blockchain-based system to improve transparency and traceability in agricultural supply chains.
- Applied machine learning algorithms (Decision Tree, Random Forest, KNN, K-Means) to enhance prediction accuracy.
- Performed data preprocessing and dataset analysis using Pandas and NumPy.
- Evaluated model performance using accuracy metrics and improved results.

Attendance Management System Using Face Recognition

- Designed and developed a web-based attendance system using face recognition concepts.
- Automated student attendance tracking and record maintenance.
- Reduced manual effort and improved accuracy.
- **Technologies Used:** Python, JavaScript, MongoDB

TECHNICAL SKILLS

- **Programming Languages:** Python
- **Data Analysis:** Pandas, NumPy, SQL
- **Machine Learning:** Regression, Classification, Clustering (Decision Tree, Random Forest, KNN, K-Means)
- **Model Evaluation:** Accuracy, Precision, Recall
- **Data Preprocessing:** Data Cleaning, Feature Scaling
- **Tools :** Jupyter Notebook, VS Code, Git, Scikit-learn

EDUCATIONAL QUALIFICATIONS

Master of Engineering (M.E) – Computer Science and Engineering

Hindusthan Institute of Technology, Anna University
Coimbatore | **2023 – 2025**

Bachelor of Engineering (B.E) – Computer Science and Engineering

Pollachi Institute of Engineering and Technology, Anna University
Pollachi | **2019 – 2023**

CERTIFICATION

Certified Data Scientist

Datamites | Sept 2025 – Dec 2025

- Completed training in Python, Data Analysis, and Machine Learning.
- Gained hands-on experience in ML algorithms and data preprocessing.
- Worked on practical datasets and mini-projects.

STRENGTHS

- Strong analytical and problem-solving skills.
- Quick learner and self-motivated.
- Passion for Machine Learning and AI.

LANGUAGES

- English
- Tamil