Pradeepa Murugesan

Machine Learning Engineer

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github.com/Pradeepa-murugesan 🔄 https://leetcode.com/u/Pradeepa_Murugesan/

in linkedin.com/in/pradeepa-murugesan-677b14276



Profile

An enthusiastic B.Tech Artificial Intelligence and Machine Learning student with a passion for solving real-world challenges through data-driven solutions. Skilled in Python programming, machine learning, and cloud technologies, with a strong focus on continuous learning and collaboration. Adept at adapting to dynamic environments, staying aligned with industry trends, and consistently enhancing technical capabilities.

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B.Tech. - Artificial Intelligence and Machine Learning - CGPA: 9.0,

2022 – 2026 | Coimbatore, India

Sri Shakthi Institute of Engineering and Technology

2021 - 2022 | Coimbatore, India

H.S.C. - Percentage: 87%, PSGG Kanya Gurukulam Higher Secondary School S.S.L.C. - Percentage: 85%, PSGG Kanya Gurukulam Higher Secondary School

2019 - 2020 | Coimbatore, India

Technical Skills

Programming: Python, SQL (Beginner - Basic querying, filtering, joins, and aggregate functions)

Machine Learning: Algorithms - K-Nearest Neighbors (KNN), Decision Trees, Logistic Regression, Linear Regression, Naive Bayes, Random Forest, Ensemble Methods.

ML Proficiencies: Data Preprocessing, Feature Engineering, Hyperparameter Tuning, Cross-Validation.

AWS Cloud Fundamentals: Experience with core AWS services - EC2, S3, VPC, IAM,

♦ Soft Skills

- Strong teamwork and collaboration
- · Efficient time management

- Adaptable and quick learner
- · Resilience and a growth mindset

Areas of Interest

- MLOps Practices
- Natural Language Processing (NLP)

- Advanced Cloud & Al Deployments
 - Automation and DevOps

Projects

1) Phishing Website Using Machine Learning

Tech Used: Python, XGBoost, Scikit-learn, Pandas, NumPy, Flask, HTML

03/2024 - 05/2024

- Developed a machine learning-based system to detect phishing websites by analyzing various features and processing website data for classification.
- · Evaluated multiple ML algorithms and selected XGBoost for its superior performance, achieving 95% accuracy through optimized feature selection and hyperparameter tuning.

2) AI-Powered Retail Insights and Query System

10/2024 - 12/2024

Tech Used: Python, YOLOV5, Gemini API, Flask, SQLite, Streamlit, HTML, CSS

- Developed an AI-powered retail analytics system using YOLOv5 for real-time object detection to monitor product availability and detect empty shelf spaces.
- Implemented a text-to-query feature using the Gemini API, enabling seamless inventory and sales data retrieval. Integrated sentiment analysis to evaluate customer feedback and support data-driven decision-making.
- Collaborated in a team of 4 using agile practices like daily stand-ups and sprint planning to ensure efficient and timely project delivery.

Certifications

• SIH - Senior Software Edition 2

• Complete Machine Learning Bootcamp, Udemy

Workshops

MLOps, RAMPeX 2024 | Coimbatore

Applications of AI for Predictive Maintenance, Nvidia

2024 | Coimbatore

Publications

Phishing Website Using Machine Learning, IJSREM 2

02/07/2024