

PRADEEPA MURUGESAN

Machine Learning Engineer

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SUMMARY

Motivated B.Tech AI/ML student with a solid foundation in Python and Machine Learning. Passionate about LLMs, RAG, Generative AI, and Agentic AI, with a focus on real-world applications. Eager to build intelligent solutions and contribute to impactful AI innovations while continuously learning in this evolving field.

EDUCATION

B.Tech - Artificial Intelligence & Machine Learning	CGPA
Sri Shakthi Institute of Engineering and Technology	9.0 / 10
⌚ 2022 - 2026	
H.S.C - Mathematics and Biology	Percentage
PSGG Kanya Gurukulam Higher Secondary School	87 / 100
⌚ 2020 - 2022	
SSLC - Secondary School	Percentage
PSGG Kanya Gurukulam Higher Secondary School	84 / 100
⌚ 2019 - 2020	

SKILLS

Python	AWS	Machine Learning	RAG	LLM	NLP
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WORKSHOPS

Applications of AI for Predictive Maintenance

NVIDIA

⌚ 06/2024 - 07/2024 🌍 Coimbatore

🔗 bit.ly/4kEYLTF

- Participated in a specialized workshop focused on AI applications in predictive maintenance.
- Gained hands-on understanding of deploying AI models for anticipating system failures and enhancing operational efficiency.

ACHIEVEMENTS

Finalist – Smart India Hackathon 2023 (Senior Software Edition)

Selected for the **Grand Finale** of SIH 2023 among top national teams. Collaborated on a real-world problem statement to develop an innovative software solution under time-bound constraints, showcasing strong problem-solving and teamwork skills.

PUBLICATIONS

Phishing Website Using Machine Learning

IJSREM

Siva Sakthi US, Janani D

⌚ 07/2024 ↗ bit.ly/3SMwQW9

Designed a machine learning model to detect phishing websites using URL-based features. Achieved high accuracy through effective feature extraction and model evaluation using classification algorithms in Python.

LANGUAGES

Tamil
Native



English
Proficient



CERTIFICATIONS

Complete Data Science, Machine Learning, NLP Bootcamp

Udemy

⌚ 02/2025

- Gained hands-on experience with core Data Science and ML techniques, including supervised and unsupervised learning.
- Explored modern NLP methods and introductory concepts related to Large Language Models (LLMs).

AWS Cloud Quest: Cloud Practitioner

Amazon Web Services (AWS)

⌚ 03/2025

- Gained hands-on cloud skills by solving real-world scenarios using core AWS services, security, and cost optimization practices.

AREAS OF INTEREST

LLM RAG Automation and DevOps

Advanced Cloud & AI Deployments

PROJECTS

Phishing Website Detection using Machine Learning

⌚ 03/2024 - 05/2024

↗ bit.ly/45vAOK4

Built an **XGBoost model** to identify **phishing websites** by analyzing **URL features** with high accuracy. Focused on efficient feature extraction and model performance tuning. Deployed the model through a lightweight web interface for real-time predictions.

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

AI-Powered Retail Insights and Query System

⌚ 10/2024 - 12/2024

↗ bit.ly/3T2KjZL

Developed a comprehensive retail analytics platform using **YOLOv5** to detect empty shelf spaces, a **text-to-SQL query interface** for seamless database access, and **sentiment analysis** to extract customer insights. Enabled smarter decisions through intelligent automation and real-time data visualization.

- Tech Stack:** Python, Flask, YOLOv5, Labeling, Gemini API, HTML, CSS

AI-Powered Resume Analyzer

⌚ 03/2025 - 05/2025

↗ bit.ly/4dAqz9m

Designed a smart resume-matching system with **Gemini 1.5 Flash** and a **RAG-based architecture**. Parsed resumes using **PDFMiner** and **NLP pipelines** to extract key data, identify skill gaps, and recommend tailored upskilling resources.

- Tech Stack:** Gemini API, MySQL, SentenceTransformers, PDFMiner