

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 Sri Shakthi Institute of Engineering and Technology 📅 2022 – 2026	CGPA 9.0 / 10
H.S.C – Mathematics and Biology PSGG Kanya Gurukulam Higher Secondary School 📅 2020 – 2022	Percentage 87 / 100
SSLC – Secondary School PSGG Kanya Gurukulam Higher Secondary School 📅 2019 – 2020	Percentage 84 / 100

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 <ul style="list-style-type: none">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.
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ACHIVEMENTS

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.
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PUBLICATIONS

Phishing Website Using Machine Learning IJSREM <i>Siva Sakthii US, Janani D</i> 📅 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.
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LANGUAGES

Tamil Native	English Proficient
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CERTIFICATIONS

Complete Data Science, Machine Learning, NLP Bootcamp Udemy 📅 02/2025 <ul style="list-style-type: none">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 <ul style="list-style-type: none">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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">Tech Stack: Python, Flask, YOLOv5, Labelling, 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. <ul style="list-style-type: none">Tech Stack: Gemini, API, MySQL, SentenceTransformers, PDFMiner