

LOKPAVAN P

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SUMMARY

Entry-level Software Engineer possessing a strong knowledge base in the programming, software design, and software development principles. Hands on Experience in providing effective solutions and being detailed and constantly learning. Team player with good problem-solving skills and time management skills. Enthusiastic about creating effective, quality applications to spur innovation and successful projects.

EDUCATION

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| • B.E in Computer Science and Engineering , JSSSTU, Mysore, India
CGPA: 7.8 | 2023 - 2025 |
| • Diploma in Computer Science , JSS Polytechnic, Mysore, India
Percentage: 94.32% | 2019 – 2022 |
| • Matriculate , Maharshi High School, Mysore, India
Percentage: 75.84 | 2017 – 2018 |

PROJECTS

AgroPredict - Crop Recommendation System

Aug 2024

- Designed an **AI/ML Web** that employs to provide **recommendation of crops, fertilizers and identify diseases** in plants. Developed to **help farmers** to make data driven decisions to **boost yield and sustainability**.
- Technologies Used:** Python3, HTML5, CSS3, JavaScript, PHP, Flask, Regex, Pickle.

Multiple Disease Prediction System

Apr 2025

- Developed a **Scalable Cloud – Hosted ML** web app to **predict diseases** like **Heart, Diabetes and Parkinson's**. Designed for **real time predictions** with focus on scalability, accuracy and accessibility for medical professionals
- Technologies Used:** Python3, Flask, TensorFlow, Keras, OpenCV, Scikit-learn, Streamlit.

AI Driven Flight Plan Analysis & Automation System

Dec 2025

- Developed an AI-driven automation prototype that converts flight plan CSV data into actionable insights, streamlining flight planning workflows and reducing manual analysis effort in aviation operations.
- Technologies Used:** React.js, TypeScript, Node.js, Tailwind, Express.js, PostgreSQL, LLM (GenaAI).

TECHNICAL SKILLS

- Programming Languages: C, Python.
- Web Technologies: Html5, CSS3, Tailwind CSS, JavaScript, TypeScript, React.js.
- Backend and API's: PHP, Node.js, Express.js, RESTful API Development, JWT, Multer.
- Database: MySQL, PostgreSQL.
- OS Platforms: Windows, Linux.
- Tools: Git, Github, VSCode, Streamlit (cloud-hosted apps), Microsoft Excel.
- AI & Automation Tools: ChatGPT (LLM APIs), GitHub Copilot (Exposure), Power Automate (Basic).
- Frameworks: Flask, Django, MVC, TensorFlow.
- Python & ML Libraries: pandas, NumPy, scikit-learn, TensorFlow.
- ML/AI Specialization: Generative AI, LLMs, NLP basics, ChromaDB, Langchain, Agentic AI concept.
- ML Concepts: supervised learning, cross-validation, regularization, evaluation metrics.
- Specialization: Agile Development, SDLC, Requirements Gathering, Documentation (SRS, Functional Specs).
- Networking & Security: TCP/IP, OSI Model, OSINT Basic, IDS, IP Networking Protocols.
- DevOps & Containerization: Jenkins, Docker, Kubernetes, CI/CD Pipelines.
- Cloud & Conversational AI: GCP (Familiar Exposure).

CERTIFICATES

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| • Python development Internship at Octanet  | Aug 2024 |
| • Machine Learning Using Python Course Certification from Infosys  | June 2025 |
| • GEN AI on GCP Certification from Infosys  | July 2025 |
| • Conversational AI on Vertex AI and Dialogflow CX badge from Google Cloud  | Oct 2025 |
| • Introduction to Generative AI Badge from Google Cloud  | Oct 2025 |