

PRAKASH M

Python Full Stack Developer – AI

📍 142/18, Sundagapatti, Bommiyampatti Kadayampatty, Salem, TN - 636353
📞 +91-8072482753 📩 prakashmurugan612@gmail.com 💬 LinkedIn 🐾 GitHub

PROFESSIONAL SUMMARY

Passionate Python Full Stack Developer with expertise in AI/ML integration and 2+ years of hands-on development experience. Specialized in building intelligent web applications using Django, React, and cutting-edge AI technologies. Proven track record in developing end-to-end solutions from concept to deployment, with a focus on agricultural technology and sustainable farming solutions. Strong foundation in deep learning, computer vision, and modern web development frameworks.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), Java, C/C++, PHP, SQL

Backend Frameworks: Django, Flask, FastAPI, Node.js, Express.js

Frontend Technologies: React.js, HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript, UI/UX Design

AI/ML Technologies: TensorFlow, Keras, Scikit-learn, OpenCV, CNN, Deep Learning, Computer Vision

Databases: MySQL, PostgreSQL, SQLite, MongoDB

Cloud & DevOps: AWS, Google Cloud, Docker, Git, CI/CD, Cloud Computing

Tools & Technologies: VS Code, PyCharm, Postman, Jupyter, Microsoft Office Suite

Specialized Skills: RESTful APIs, WebSocket, Real-time Applications, Prompt Engineering

FEATURED PROJECTS

Plant Disease Detection System using AI | *Python, Django, TensorFlow, CNN, OpenCV*

Feb 2025 – Mar 2025

- Engineered an intelligent agricultural solution using Convolutional Neural Networks (CNN) for automated plant disease detection with 95%+ accuracy
- Developed full-stack web application with Django backend, enabling farmers to upload leaf images for real-time disease diagnosis
- Implemented computer vision algorithms for image preprocessing and feature extraction, integrated with TensorFlow models
- Created comprehensive treatment recommendation system with confidence scoring and agricultural best practices database
- Deployed scalable solution addressing global food security challenges, potentially impacting thousands of farmers

Hotel Management & Booking System | *HTML5, CSS3, JavaScript, PHP, MySQL*

Apr 2024 – May 2024

- Built comprehensive hotel and restaurant booking platform with dynamic reservation management system
- Designed responsive, mobile-first UI/UX with real-time availability checking and booking confirmation features
- Implemented secure payment gateway integration and automated email notification system
- Optimized MySQL database queries reducing booking processing time by 40% and improving user experience
- Delivered full project lifecycle from requirements analysis to deployment and user acceptance testing

AI-Powered Web Development Portfolio | *React.js, Python, Machine Learning APIs*

2024

- Created interactive portfolio showcasing AI/ML projects with real-time model demonstrations and code repositories
- Integrated multiple ML models including image classification, natural language processing, and predictive analytics
- Implemented modern React components with dynamic data visualization using Chart.js and D3.js
- Deployed on cloud infrastructure with CI/CD pipeline ensuring 99.9% uptime and scalable performance

PROFESSIONAL EXPERIENCE

Web Development Intern

Optimus Technocrates India Private Limited

Apr 2024 – May 2024

Salem, Tamil Nadu

- Developed 5+ responsive web applications using HTML5, CSS3, JavaScript, and PHP with MySQL database integration
- Collaborated with senior developers on full-stack projects, gaining expertise in agile development methodologies
- Optimized existing codebase improving application performance by 30% and reducing load times
- Participated in code reviews, bug fixes, and feature enhancements following industry best practices
- Successfully delivered all assigned projects within deadlines, receiving recognition for code quality and innovation

EDUCATION

Bachelor of Computer Science (B.Sc. CS)

Muthayammal College of Arts and Science (Autonomous)

Expected May 2025

Rasipuram, Tamil Nadu

- Current CGPA: 6.1/10 (up to 5th semester) – **Achievement: All-Rounder Award**
- Relevant Coursework: Data Structures, Algorithms, Database Management, Software Engineering, AI & ML
- Active member of coding club, participated in multiple hackathons and technical symposiums

Higher Secondary Certificate (HSC)

Government Higher Secondary School

2022

Periyavadagampatty, Salem

- Percentage: 51.6% – **Achievement: All-Rounder Award**
- Specialized in Computer Science and Mathematics with strong foundation in analytical thinking

CERTIFICATIONS & ACHIEVEMENTS

Professional Certifications:

- Python Fundamentals – Accent Techno Soft (ATS), Coimbatore
- Prompt Engineering – Accent Techno Soft (ATS), Coimbatore
- Cloud Computing – Infosys Springboard
- Practical HTML & CSS – Infosys Springboard
- JavaScript Development – Infosys Springboard
- C++ Programming – Infosys Springboard
- Java Tools – Industry Certification

Academic & Professional Achievements:

- All-Rounder Award recipient (Academic Excellence & Extracurricular Activities)
- Active participant in coding workshops, hackathons, and tech conferences
- Completed 30-day intensive web development training with industry recognition
- Strong advocate for sustainable agriculture through technology innovation

CORE COMPETENCIES

Full Stack Development: End-to-end application development from UI/UX design to deployment and maintenance

AI/ML Integration: Seamless integration of machine learning models with web applications for intelligent solutions

Database Architecture: Design and optimization of relational and NoSQL databases for scalable applications

Agile Development: Experience with modern development methodologies, version control, and collaborative workflows

Problem Solving: Strong analytical and debugging skills with focus on innovative, sustainable technology solutions

Leadership & Communication: Proven ability to lead projects, mentor peers, and communicate technical concepts effectively

LANGUAGES & PERSONAL SKILLS

Languages: Tamil (Native), English (Professional Proficiency)

Soft Skills: Team Collaboration, Project Management, Time Management, Creative Problem Solving

Interests: Agricultural Technology, Sustainable Farming, AI Research, Web Innovation, Movie Analysis, UI/UX Design

Personal Attributes: Self-motivated, Detail-oriented, Innovation-driven, Continuous Learner