

# PRAKASH M

## Python Full Stack Developer – AI

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### 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

<b>Web Development Intern</b> <i>Optimus Technocrats India Private Limited</i>	Apr 2024 – May 2024 <i>Salem, Tamil Nadu</i>
<ul style="list-style-type: none"><li>Developed 5+ responsive web applications using HTML5, CSS3, JavaScript, and PHP with MySQL database integration</li><li>Collaborated with senior developers on full-stack projects, gaining expertise in agile development methodologies</li><li>Optimized existing codebase improving application performance by 30% and reducing load times</li><li>Participated in code reviews, bug fixes, and feature enhancements following industry best practices</li><li>Successfully delivered all assigned projects within deadlines, receiving recognition for code quality and innovation</li></ul>	

## EDUCATION

<b>Bachelor of Computer Science (B.Sc. CS)</b> <i>Muthayammal College of Arts and Science (Autonomous)</i>	Expected May 2025 <i>Rasipuram, Tamil Nadu</i>
<ul style="list-style-type: none"><li>Current CGPA: 6.1/10 (up to 5th semester) – <b>Achievement: All-Rounder Award</b></li><li>Relevant Coursework: Data Structures, Algorithms, Database Management, Software Engineering, AI &amp; ML</li><li>Active member of coding club, participated in multiple hackathons and technical symposiums</li></ul>	
<b>Higher Secondary Certificate (HSC)</b> <i>Government Higher Secondary School</i>	2022 <i>Periyavadagampatty, Salem</i>
<ul style="list-style-type: none"><li>Percentage: 51.6% – <b>Achievement: All-Rounder Award</b></li><li>Specialized in Computer Science and Mathematics with strong foundation in analytical thinking</li></ul>	

## CERTIFICATIONS & ACHIEVEMENTS

<b>Professional Certifications:</b>
<ul style="list-style-type: none"><li>Python Fundamentals – Accent Techno Soft (ATS), Coimbatore</li><li>Prompt Engineering – Accent Techno Soft (ATS), Coimbatore</li><li>Cloud Computing – Infosys Springboard</li><li>Practical HTML &amp; CSS – Infosys Springboard</li><li>JavaScript Development – Infosys Springboard</li><li>C++ Programming – Infosys Springboard</li><li>Java Tools – Industry Certification</li></ul>
<b>Academic &amp; Professional Achievements:</b>
<ul style="list-style-type: none"><li>All-Rounder Award recipient (Academic Excellence &amp; Extracurricular Activities)</li><li>Active participant in coding workshops, hackathons, and tech conferences</li><li>Completed 30-day intensive web development training with industry recognition</li><li>Strong advocate for sustainable agriculture through technology innovation</li></ul>

## CORE COMPETENCIES

<b>Full Stack Development:</b> End-to-end application development from UI/UX design to deployment and maintenance
<b>AI/ML Integration:</b> Seamless integration of machine learning models with web applications for intelligent solutions
<b>Database Architecture:</b> Design and optimization of relational and NoSQL databases for scalable applications
<b>Agile Development:</b> Experience with modern development methodologies, version control, and collaborative workflows
<b>Problem Solving:</b> Strong analytical and debugging skills with focus on innovative, sustainable technology solutions
<b>Leadership &amp; Communication:</b> Proven ability to lead projects, mentor peers, and communicate technical concepts effectively

## LANGUAGES & PERSONAL SKILLS

<b>Languages:</b> Tamil (Native), English (Professional Proficiency)
<b>Soft Skills:</b> Team Collaboration, Project Management, Time Management, Creative Problem Solving
<b>Interests:</b> Agricultural Technology, Sustainable Farming, AI Research, Web Innovation, Movie Analysis, UI/UX Design
<b>Personal Attributes:</b> Self-motivated, Detail-oriented, Innovation-driven, Continuous Learner