KAMALESH RAMAKRISHNAN

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EDUCATION

B.E., Computer Science Engineering   Graduating Expected Oct 2026
JCT College of Engineering and Technology   8.03 GPA
Affiliated with Anna University, Chennai

Relevant coursework: Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, System Architecture, Database Management Systems, Web Development, Machine Learning, Data Structures

TECHNICAL SKILLS

Programming: Python, JavaScript
Technologies: Git, Django, Flask, MySQL
Certifications: Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate

PROJECTS

Stock Market Analysis Tool Using yFinance and Machine Learning   2025 – Present
Developed a real-time stock analysis tool with machine learning for predictive insights   GitHub

- Built a CLI tool to analyze stocks using 15-minute interval data over 60-day periods via yFinance, computing 12+ technical indicators (MACD, RSI, Bollinger Bands, VWAP, Momentum, Heikin-Ashi, EMA, SMA, WMA, ADX)
- Engineered a predictive pipeline with 14 custom features and a Random Forest classifier, achieving 82% test accuracy; integrated a 10-rule weighted signal engine for decision logic
- Developed a Monte Carlo simulation engine with 1,000+ runs per query to model stock price distributions for risk analysis, optimized with NumPy for <2s inference latency.
- **Technologies**: Python, yFinance, scikit-learn, NumPy, Pandas

Job Form Auto Filling Extension   2024
Developed a browser extension to automate job application form filling with high accuracy   GitHub

- Developed a browser extension with 85%+ field detection accuracy, supporting 100+ complex web forms (text, dropdowns, checkboxes, radios) by leveraging regex patterns and BeautifulSoup for HTML parsing
- Reduced manual data entry time by 85% through automated field mapping and optimized form processing latency by 30% using Selenium for efficient DOM manipulation and interaction
- Implemented advanced error logging and exception handling with custom retry logic, cutting debug time by 40% and ensuring compatibility across multiple job portals with dynamic form structures
- **Technologies**: Python, JavaScript, Selenium, BeautifulSoup, regex

OTHER EXPERIENCE

JCT College of Engineering, Coimbatore, India: Peer Tutor   March 2025 – Present

- Conducted hands-on Python training for 10–15 undergraduate students, covering core programming, scripting, and problem-solving
- Delivered lessons on Data Structures and Algorithms, including time complexity, recursion, sorting, and dynamic programming with real-world examples

ACTIVITIES

JCT Coding Club, Coimbatore, India: Active Member   2023 – Present

- Participated in weekly coding challenges and hackathons, solving problems in Python
- Collaborated on team projects, including a group submission for a national coding competition

HONOURS

Kerala Sasthrolsavam IT Fair, Palakkad, Kerala, India: First Place in Animation   2019 – 2020

- Secured First Place in Animation at the Palakkad District Kerala Sasthrolsavam IT Fair 2019–2020, outperforming 350+ competitors, awarded by the Government of Kerala