

# VIKRAM P

## SOFTWARE ENGINEER

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Vikram palanivel

### ABOUT ME

Aspiring Software Engineer with a strong foundation in Java, Python, and JavaScript, and a solid understanding of the Software Development Life Cycle (SDLC). Eager to contribute to scalable and user-friendly applications while continuously learning and growing in a collaborative team environment.

### SKILLS

- **Technical Skills**
- Python
- Java
- Power BI
- Data Visualization
- SQL and Database Management
- GitHub
- Docker

### Soft Skills

- Leadership
- Problem Solving
- Quick learning
- Team Collaboration
- Innovative thinking

### CERTIFICATION

- Cloud Computing – NPTEL
- Data Analytics using Python – NPTEL
- Software Testing – NPTEL
- Joy of Computing – NPTEL
- Programming in Java-NPTEL

### EDUCATION

Pursuing B.Tech Artificial Intelligence and Data Science (2022 -2026)  
CGPA – 8.0 (till 5 th sem)

A.K.T Academy Matric Hr Sec(2021-22)  
School Percentage(HSC) = 76.1

A.K.T Academy Matric Hr Sec(2019-20)  
School Percentage(SSLC) = 67

### LANGUAGE

- ENGLISH (PROFESSIONAL)
- TAMIL (NATIVE)
- HINDI (CONVERSATIONAL)

### PROJECTS:

#### AI-POWERED WASTE MANAGEMENT SYSTEM

- Designed and implemented an intelligent waste classification system using Convolutional Neural Networks (CNNs) to accurately identify and sort waste materials.
- Applied Reinforcement Learning techniques to optimize recycling logistics and routing, enhancing operational efficiency in waste collection and processing.
- Utilized Generative Adversarial Networks (GANs) to model and simulate waste reduction strategies, supporting data-driven sustainability initiatives and minimizing landfill use.

#### ONLINE VOTING APPLICATION WITH STREAMLIT

- Developed a secure and interactive voting application using Python and Streamlit, featuring an intuitive user interface for seamless user experience.
- Implemented real-time vote tracking and backend logic to ensure transparency, fairness, and integrity in the digital voting process.
- Designed the system for easy deployment in academic, organizational, or club-level elections, enabling flexible and scalable usage.

#### AI RESUME FIT

- Developed an AI-powered job assistant web app using Streamlit, integrating Gemini Pro (Google Generative AI) to perform ATS-style resume analysis and personalized cold email generation.
- Implemented PDF parsing, image rendering, and real-time content extraction using PyMuPDF and PIL, with dynamic visualization of resume-job fit via Matplotlib-based pie charts.
- Engineered intelligent prompts and response parsing to extract match percentages, identify skill gaps, and generate tailored feedback and outreach communication based on tone and profile data.

### ACHIEVEMENTS

President, coding club

(Agni college of technology)

Skillrack : Problem Solving

(450+ Problems solved)

NPTEL Discipline Star Award