

Sanjana Thoudu

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SUMMARY

Results-driven Software Engineer with expertise in Python, Java, Flask, SQL. Skilled in system design, debugging, and performance optimization, with proven improvements in efficiency and bug resolution. Experienced in Agile methodologies and Generative AI training, with a strong focus on problem-solving and innovation.

EDUCATION

Vasavi College of Engineering

Bachelor of Engineering in Computer Science

CGPA - 8.95

Aug. 2019 - May 2023

EXPERIENCE

Generative AI Trainer

Oct. 2024 - Present

Outlier

Remote

- Applied strong coding skills in Python to train and fine-tune generative AI models.
- Integrated AI models into applications, APIs, and enterprise systems, including chatbots and content tools.
- Conducted code reviews and debugging for AI training scripts to ensure reliability and performance.
- Reviewed and optimized Python code generated by LLMs for accuracy, performance, and readability.
- Designed prompt engineering strategies to improve AI output quality using programming approaches.

Associate Process Leader

June 2023 - Sep 2024

Brane Enterprises Pvt. Ltd

Hyderabad

- Architected backend for a Low-Code/No-Code platform using Flask and SQL, reducing manual effort by 80% with drag-and-drop app creation.
- Implemented role-based access control with Flask-Security and Flask-Login for enhanced security.
- Resolved 30+ critical bugs, reducing system downtime by 40% and improving reliability.
- Developed responsive frontends with Flask, Jinja2, HTML, CSS, JS, and Bootstrap.
- Executed API testing with Postman, managing 100+ test cases for performance and security.
- Optimized code by refactoring, cutting complexity by 30% for better maintainability.
- Contributed to architecture documentation, ensuring alignment with design constraints.
- Applied CI/CD and agile practices, reducing deployment time by 50%.

PROJECTS

Lung Cancer Detection

Machine Learning

- Developed an application for early detection of lung cancer using a CNN model to improve patient recovery and survival rates.
- Built using Python and Deep Learning, leveraging Convolutional Neural Networks (CNN) for accurate diagnosis.

Blog Application

Web Application

- Developed a blog application enabling users to add, edit, delete, and view blogs with full content management functionality.
- Built using HTML, CSS, Bootstrap, and JavaScript for a responsive and user-friendly interface.

TECHNICAL SKILLS

Languages: Python, SQL (MySQL), Java, C, HTML, CSS, JavaScript

Frameworks: Bootstrap, Flask

Libraries: Pandas, NumPy, Matplotlib

Concepts: Object-Oriented Programming, Data Structures and Algorithms, Machine Learning, SDLC

CERTIFICATIONS AND ACHIEVEMENTS

- First Place Winner, Invesco Hackathon 2023 - Awarded 50,000 INR for developing an innovative solution.
- Certified by NPTEL in Machine Learning (IITKGP).
- Hackerrank skill certificate in Python and SQL.