Thulasi Rahul J

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PROFESSIONAL SUMMARY

Aspiring software engineer and Computer Science student with a solid foundation in Python, C, and Java, eager to apply strong problem-solving skills and continuous learning mindset to develop impactful real-world technology solutions.

SKILLS

Languages: Python, C, Java

Web Development: HTML5, CSS3, JavaScript, React.js, Angular, Node.js, Django, Express.js, Flask

Database: MySQL, MongoDB, Oracle

Tools: VS Code, Eclipse, Jupyter Notebooks

Soft Skills: Structured Problem-Solving, Collaboration & Teamwork, Willingness to Learn, Creativity & Innovation, Decision Making, Self-Motivation, Accountability, User-centric thinking

PROJECTS

Spinal Vision – CNN-Driven Stenosis Detection System

RMK College of Engineering and Technology · January 2025 – May 2025
- Processed **over 1,000 medical images** to train and validate a ResNet-based deep learning model for spinal stenosis detection, ensuring high data diversity and robust model performance.
- Achieved **96% accuracy using a custom CNN** architecture and integrated it into a Django web app, delivering AI-powered diagnostic support to healthcare professionals.
- **Technologies**: Python, TensorFlow, Keras, OpenCV, NumPy, Pandas, Matplotlib, Django, HTML, CSS, JavaScript, Bootstrap, Git, GitHub, SQLite.

Sentiment Analysis of Movie Reviews

Personal · January 2023 – March 2023
- Engineered a sentiment analysis pipeline for movie reviews, integrating diverse preprocessing techniques and machine learning models to achieve high classification performance.
- Built a sentiment classifier with **85% accuracy** on **10,000+ IMDB movie reviews**.
- **Technologies(4 Used)**: Python, scikit-learn, NLTK, pandas.

EDUCATION

B.E. Computer Science and Engineering

RMK College of Engineering and Technology · Tiruvallur · 2025
- **CGPA**: 7.68/10
- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, Software Engineering, Artificial Intelligence, Data Analytics, Machine Learning, and Cloud Computing.

Higher Secondary School 12th, Bio-Math

ABS Vidhya Mandhir · Tiruvallur · 2021
- **Percentage**: 72%

CERTIFICATIONS

Machine Learning Specialization

Stanford online – Coursera · 2025
- The **Machine Learning Specialization** from **Stanford** strengthened my understanding of core ML concepts and practical implementation using Python and TensorFlow. This directly supports my work on projects like the Spinal Vision stenosis detection system, enhancing model accuracy and deployment skills.

Python Pro Bootcamp

Udemy · 2025
- The **Python Pro Bootcamp** from **Udemy** helped me master Python programming fundamentals and advanced techniques, boosting my coding efficiency and enabling me to develop robust software projects.

Web Development Bootcamp

Udemy · 2024
- I completed a comprehensive **Web Development Bootcamp** on **Udemy**, covering front-end and back-end technologies. This course strengthened my skills in HTML, CSS, JavaScript, and building full-stack web applications. ·

WORK EXPERIENCE

Intern

DLK Career Development   January 2023 – January 2023, Chennai
- Gained hands-on experience with over **20 types of cyber threats** to **data confidentiality**, including phishing, malware, and social engineering.
- Applied encryption, secure authentication, and firewall techniques, achieving a simulated **50% reduction** in potential data breaches.
- Utilized cybersecurity tools (e.g., Wireshark, Nessus) to detect and patch **30+ system vulnerabilities**, improving simulated network **security by 60%**.