

# MEGHA D SUVARNA

Aspiring Software Engineer

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## PROFESSIONAL SUMMARY

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Highly motivated and detail-oriented software development student, eager to kickstart a career in the dynamic world of software development. Strong foundation in Python, C, and JavaScript, along with a solid understanding of software development concepts and methodologies. Excellent problem solving abilities, coupled with strong communication and teamwork skills, make me a valuable asset to any software development team.

## EDUCATION

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### Bachelor of Engineering in Computer Science and Engineering - AIML

Siddaganga Institute of Technology

2022-26

CGPA: 9.43

## PERSONAL PROJECTS

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### Plant Disease Classifier (Deep Learning)

*Developed a deep learning model for detecting and classifying plant diseases using image classification techniques.*

- Implemented a convolutional neural network (CNN) to classify plant diseases from leaf images.
- Trained the model using a dataset of labeled plant images.
- Deployed the model using Jupyter Notebook for visualization and testing.
- Technology Used: Python, TensorFlow, Keras, OpenCV.

### Decentralized Voting System (Blockchain)

*Designed and developed a blockchain-based voting system to ensure transparency and security in elections.*

- Implemented smart contracts to securely record and tally votes on the Ethereum blockchain.
- Developed the frontend using ReactJS for user interaction.
- Ensured immutability and transparency through blockchain technology.
- Technology Used: Solidity, Ethereum, Truffle, Ganache, JavaScript.

### Orrery WebApp

*Designed and developed an interactive orrery web app for real-time visualization of planetary orbits.*

- Utilized NASA APIs to fetch real orbital data for planets and asteroids.
- Developed the visualization using Python with Streamlit for an interactive user experience.
- Implemented dynamic UI controls for zoom, speed adjustments, and celestial body selection.
- Technology Used: Python, Streamlit, NASA API, Matplotlib.

### PII Detection and Masking System

*Developed a system to detect and mask Personally Identifiable Information (PII) in documents for privacy protection.*

- Implemented regular expressions to detect PII such as Aadhaar, PAN, and other sensitive data.
- Masked detected PII in uploaded documents and allowed users to download the masked data.
- Built the system using Python and Flask for backend processing.
- Technology Used: Python, Flask, Regular Expressions, Data Security.

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** C, Python, Javascript, HTML+CSS.

**Dev Tools:** VScode, Git, Github.

**Frameworks:** ReactJs with Vite.

**Data Analytic tools:** R, MS Excel.

**Cloud/Databases:** MongoDB, Firebase, MySQL.

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming.

**Areas of Interest:** Web Design and Development, Blockchain and AIML.

**Soft Skills:** Problem Solving, Self-learning, Adaptability

## CERTIFICATIONS AND ACHIEVEMENTS

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**Certificate of Participation:** IEEE WIE CODE 2022 and 2023.

**Certificate of Participation:** Technical Quiz conducted by Unstop 2024.

**Certificate of Participation:** ShriDevi ShriTek Hackathon 2024.

**Certificate of Participation:** NASA Space Apps Challenge 2024.

**Certificate of Participation:** Internal Hackathon for SIH 2024.

**Certificate of Participation:** Sustain Fiesta 2024.

**Certificate of Completion:** Artificial Intelligence by Infosys Springboard.

**Certificate of Completion:** Machine Learning by Infosys Springboard.

**Certificate of Completion:** SQL and Database Testing by Infosys Springboard.

**Job Simulation Completion:** Software Engineering by Accenture (Forage).

**Job Simulation Completion:** BCG X Gen AI Simulation (Forage).

## POSITIONS OF RESPONSIBILITY

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**Tutor** at Reinforce Organization - NGO, Tumakuru

*Aug 2023*

- Conducted individual tutoring sessions, assisting students in improving their academic performance in mathematics and science subjects.