SULONI PRAVEEN

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EDUCATION

University of Southern California   **Los Angeles, CA, US**
Master of Science in Computer Science   **JAN 2024 - DEC 2025**

- Coursework: Analysis of Algorithms, Database Management Systems, Web Technologies, Information Retrieval and Web Search Engines, Machine Learning for Data Science, Deep Learning and its Applications

Vidyavardhaka College of Engineering Affiliated with VTU   **Mysuru, Karnataka, India**
Bachelor of Engineering in Computer Science   **AUG 2019 - JUN 2023**

- Coursework: DSA, Algorithms, Operating Systems, Web Technologies, Unix Programming, OOPS, Data Mining, AI/ML **GPA- 9.16**

EXPERIENCE

SARA   **California, US**
Software Engineering Summer Intern   **JUN 2024 - JUL 2024**

- Engineered home page of the **Speech Articulation Reinforcement Application** with React Native, React and AWS Amplify; reduced load time by 40%
- Created routing calls to all pages of the application by improving navigation speed by 25%

INVENTRON TECHNOLOGIES   **Bengaluru, Karnataka, India**
Machine Learning Intern   **JUN 2023 - OCT 2023**

- Designed **Heart Disease Prediction System** achieving an accuracy rate of 83.33% using CNN, Image Recognition techniques, NumPy, Matplotlib, and Pandas
- Upgraded prediction accuracy by 15% through iterative testing and model refinement. Leaded data training for team

COACHED   **Mysuru, Karnataka, India**
Backend Developer Intern   **SEP 2022 - OCT 2022**

- Devised a **Restaurant Management System** implemented on MongoDB, React and Node frameworks by streamlining restaurant operations and reducing order processing time by 50%
- Formulated innovative marketing strategies and conducted market segmentation analysis, boosting product awareness by 40%

SKILLS

- *Languages:* C, C++, Java, Python, HTML, CSS, XML, JSON, JavaScript, TypeScript, PHP, Swift
- *Software and Technologies:* REST APIs, Postman, jQuery, Ajax, Apache, Unix, Linux, Expo, XCode, Git
- *Frameworks:* Angular, React, React Native, Node, Express, Flask, Bootstrap
- *Cloud and DB: GCP,* AWS, MongoDB, PostgreSQL, MySQL
- *Machine Learning:* Matplotlib, Pandas, NumPy, Keras, TensorFlow, PyTorch, Research

PROJECTS

- *Weather Data Full Stack/Mobile Application*   **NOV 2024**
  Engineered a MERN stack, Swift, and Flask-based solution to provide real-time, location-based weather insights by integrating APIs, leveraging AJAX, JSON, and MongoDB Atlas for cloud-hosted data management.

- *Sequence Alignment Implementation Using Dynamic Programming in a Memory-Efficient Version*   **MAY 2024**
  Generated using VSCode, matplotlib and NumPy. Constructed and optimized a model using Python libraries, generating predictive analytics that improved efficiency by 20%

- *Okra Disease Detection*   **MAY 2023**
  Built by applying Resnet18 model with an accuracy of 92.8%. Facilitated communication with farmers for dataset collection

- *Crime Record Management System*   **APR 2022**
  Implemented with HTML, CSS, JavaScript, MySQL, PHP, and XAMPP Apache server. Interacted with users for feedback

ACHIEVEMENTS

- Earned selection by USC Viterbi College of Engineering for prestigious Summer Smasher Program   **MAY 2024**
- Secured 2nd place in IDEATE competition at VVCE for the idea of 'Temperature Sensitive Stickers for Medicines'   **JUN 2021**
- Represented VVCE as the Campus Ambassador for National Engineering Olympiad by boosting engagement by 35%   **OCT 2021**
- Achieved Microsoft Technology Associate Certification in Python Programming   **NOV 2020**
- Topper in Computer Science at 12th CBSE Boards   **NOV 2019**

RESEARCH

- Authored research paper on Cotton Plant Disease Detection with 95% accuracy at ICSISCET Conference   **OCT 2023**
- Leaded research on Okra Disease Detection with 92.8% accuracy at IJARCCE   **MAY 2023**

LEADERSHIP AND EXTRACURRICULARS

- Research Assistant at USC Viterbi School of Engineering under Dr. Anita Penkova   **MAY 2024 - PRESENT**
- Member of the Society of Women Engineers at USC   **JUN 2024 - PRESENT**