

SAI BHARGAVI PUSULURI

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SUMMARY

- Results-driven Computer Science graduate with hands-on expertise in Python, SQL, R, React, and AWS, with a strong foundation in web development.
- Certified in AWS, with hands-on experience in building and deploying scalable applications, and translating complex technical requirements into efficient, reliable software solutions.

EDUCATIONAL QUALIFICATION

Kent State University , Ohio-USA <i>Master of Science (Computer Science)</i>	Dec 2024
Prasad V Potluri Siddhartha Institute of Technology , India <i>Bachelors in computer science and engineering</i>	May 2023

SKILLS

Languages:	SQL, Python (Pandas, NumPy, SciPy, Matplotlib, Scikit-Learn, TensorFlow), R, React, C Language, HTML, CSS
Databases:	MySQL, MongoDB
Tools:	Microsoft Excel, Microsoft Word, Microsoft Power Point, Power BI, Tableau, SAP, JIRA, GIT
Cloud Services:	Amazon Web Services

WORK EXPERIENCE

Python Developer (Contract), Barclays	Feb 2025 – Present
<ul style="list-style-type: none">Designed and developed scalable Python applications for data processing, API integration, and automation of financial workflows.Implemented robust ETL pipelines using Pandas, NumPy, and SQL to process large datasets from multiple sources including AWS S3 and Snowflake.Collaborated with cross-functional teams to design, develop, and deploy Python applications, ensuring proper integration with front-end systems and databases.	
Software Engineer, Nykaa (Intern)	Jun 2022 – May 2023
<ul style="list-style-type: none">Assisted in the development and maintenance of software applications, including writing clean, efficient Python and React code for various features and bug fixes.Collaborated with senior engineers to implement and test new functionalities, contributing to front-end and back-end development, ensuring seamless integration.Participated in code reviews, identified areas for improvement, and helped optimize performance by refactoring inefficient code and optimizing database queries.	

PROJECTS

Crop Recommender System Based on Ensemble Classifiers - accepted for InCACCT
<ul style="list-style-type: none">Developed a machine learning-based crop recommendation system using Python to support farmers in selecting the most suitable crops based on soil nutrients and weather conditions.Trained the model on historical agricultural data using ensemble learning algorithms like Gaussian Naive Bayes, Logistic Regression, and SVM, achieving a high accuracy of 99.31%.Created a user-friendly web application using React to make the recommendation system easily accessible to farmers for real-time crop suggestions.Tools used: Python, React, Pandas, NumPy, scikit-learn, TensorFlow, Jupyter Notebook, GitHub.
Social Distance Detection
<ul style="list-style-type: none">Designed and implemented a Python-based application leveraging OpenCV and deep learning models to monitor social distancing in real-time using video feeds from cameras and drones.Implemented YOLOv3 for object detection and OpenCV for distance measurement between detected individuals.Developed an interactive web interface to visualize violations and crowd density, ensuring easy access to data and system controls for decision-makers.Tools used: Python, React, OpenCV, YOLOv3, TensorFlow, NumPy, Pandas, Matplotlib, VS Code, GitHub
Diagnosis of Herpes Zoster (HZ)
<ul style="list-style-type: none">Developed an AI-powered mobile diagnosis system for early detection of Herpes Zoster, reducing clinical workload and diagnosis costs.Trained and evaluated MobileNetV3 on clean and corrupted images, achieving a high classification accuracy of 95%, and deployed the model using Streamlit for real-time diagnosis.Tools used: Python, TensorFlow, Keras, MobileNetV3, Streamlit, NumPy, Pandas, OpenCV, Matplotlib, VS Code, GitHub
Real-time Chat Application
<ul style="list-style-type: none">Developed a secure, cloud-based messaging platform enabling seamless real-time communication.Implemented Flask for backend services, MySQL for database management, and WebSockets for real-time message transmission.Deployed the application on Google Cloud Platform (GCP) to ensure scalability, security, and high availability.Tools used: Python, Flask, MySQL, WebSockets, Google Cloud Platform (GCP), HTML, CSS, JavaScript, VS Code, GitHub

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate