

SREEJA ATLURI

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EDUCATION

Arizona State University, Tempe, Arizona

Aug 2022 - May 2024

Master of Computer Science

GPA: 4.00/4.00

Course Work: Foundations of Algorithms, Knowledge Representation, Information Assurance and Security, Semantic Web Mining, Data Visualization, Software Project, Process and Quality Management

Sagi Ramakrishnam Raju Engineering College, India

Jun 2017 - Jul 2021

Bachelor of Technology in Information Technology

GPA: 9.01/10

Course Work: Algorithms, Data Structures, Operating Systems, Object Oriented Programming, Database Management Systems Machine Learning, Distributed Database Systems, Cloud Computing, Data mining

SKILLS

Programming Languages: Python, C++, Java, C, C#, Shell scripting, JavaScript, PHP, R

Databases and Operating Systems: SQL, MongoDB, NoSQL, PostgreSQL, Windows, MacOS, Linux/Unix

Data Analysis Libraries: Pandas, Numpy, Tableau, Databricks, Spark, Hadoop, MapReduce

Tools & Other Technologies: Docker, AWS, HTML, CSS, Git, Flask, Angular, Agile Methodologies, Six Sigma Methodologies

PROFESSIONAL EXPERIENCE

Tata Consultancy Services: Software Engineer

Hyderabad, India | Aug 2021 - Jul 2022

- Forecasted various reports in **Power BI** using bar graphs, line plots, and tables based on the client's requirements upgrading the report generation time from an hour to ~5 minutes.
- Assisted the client in saving expenditure on logistics by 12% based on the insights from reports.
- Coordinated data from disparate sources using **SQL** to construct data views for BI tools like Tableau. Processed ETL transformations to make data more flexible to utilize by the client and generated dashboards to interpret.
- Executed **Spark** in Python to distribute data processing on large-scale datasets, improving ingestion and speed by 67%.
- Engaged in 100% agile project management methodologies to support all aspects of the software development life cycle (SDLC).

MCR Web Solutions: Software Engineering Intern

Bhimavaram, India | Feb 2017 - Mar 2018

- Handled open-source learning management system moodle for conducting online examinations in the college, preserving 40+ man-hours/month.
- Negotiated with a team of four in developing an e-commerce website using Angular Spring Boot.
- Contributed a key role in maintaining the website by constantly adding new products and enhancing the user interface. Tested the website by fabricating new test cases.
- Assembled Tkinter GUI applications using python and worked on stored procedures in DBMS. Collaborated with team members to implement new feature advancements that led to a 30% increase in productivity.

PUBLICATIONS

Research Paper: International journal of advanced research in science and technology

Mar 2022

Co-authored and published a Research Paper on the academic project titled " [ISSN: 2457-00362] Emotion detection through facial feature recognition" (<https://www.ijarst.in/public/uploads/paper/687661649088663.pdf>).

- Devised a Deep Learning model using a **Convolutional Neural Network** to recognize emotions from human faces. Executed image augmentation techniques like flipping, and brightness adjustments to increase the size of the dataset.
- Fine-tuned different image classification models like ResNet, AlexNet, and InceptionNet to amplify detection accuracy. Achieved 96% by fine-tuning the ResNet-101 model.
- Deployed the CNN in a website using Flask. The classifier achieved an accuracy of 70.77 %, a precision of 7.07, a recall of 7.07, and an F1-score 7.07.

PROJECTS

Chatbot –A Conversational Interface: Personal Project

- Implemented a Rasa-x Chatbot based on **Natural Language Processing** to understand the intents and respond with an appropriate answer for the user queries based on the trained data using intent matching, extracting entities & sentiment analysis.

Online Hotel Table Booking Systems: Capstone Project

- Designed a Full-stack online hotel table reservation system using HTML, CSS3, JavaScript, PHP, and Bootstrap.

OTHER WORK EXPERIENCE

Arizona State University, Tempe, AZ: Graduate Service Assistant, CSE 310(Data Structures & Algorithms) Aug 2022 - Present

- Assisting Professor in solving and grading assignments submitted by undergraduate students. Directed students in performing and completing assigned tasks. Liaised between faculty and students to answer questions and optimize faculty time.