

Aryan Karnati

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EDUCATION

University of Southern California, Viterbi School of Engineering, Los Angeles, CA

Aug' 2022

Master of Science, Computer Science

JNTUH College of Engineering Hyderabad, India

Jul' 2022

Bachelor of Technology, Computer Science and Engineering – CGPA **9.33/10**- (Awarded **First Class with distinction**)

Relevant Coursework: Data structures and Algorithms, Database Management, Operating Systems, Object Oriented Programming, Computer Networks, Compiler Design, Web Technologies, Artificial Intelligence and Machine Learning.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, Javascript, HTML, CSS, SQL, React, PHP.

Tools & Technologies: Flask, FastAPI, AWS, Azure, GCP, Git, Pandas, Tensorflow, PyTorch, MySQL, MongoDB.

WORK EXPERIENCE

Associate Software Developer Intern, Teradata, Hyderabad India

Jan '22–Jun '22

- Worked as a full-time software intern for Teradata's **Multi-Cloud Provisioning** Team. Built and deployed an application where an employee can view the cost of cloud resources from the three major cloud platforms (AWS, GCP, and Azure).
- Functions of the application include fetching the cost details using the API and sending daily, weekly, monthly alerts to users with a list of instances (EC2s and VMs) running and to shut them down when necessary.
- Helped in reducing the overall cost of the organization by **4.6%**.
- Tools used: FastAPI, DynamoDB, AWS Lambda, Azure, GCP.

Software Engineering Intern, JNTU Innovation Hub, Hyderabad, India

Nov '21–Jan '22

- Developed a full-stack web application where employers can post jobs on the **J-hub portal**. Performed **Resume Datamining** to match recruiters with the potential candidates.
- Performed Named Entity Recognition on over 90,000 annotated sentences using **Flair**.
- Obtained an accuracy of 0.82 and 0.87 f-score(macro).
- Tools used: Flask, SQLite, Angular JS, Flair.

PROJECTS

Hate Speech Detection from Twitter Data

Oct '21 – Nov '21

- Developed a machine learning model to identify hate speech on a dataset of over 35,000 tweets collected from twitter.
- Performed data cleaning, data analysis and visualization on text data.
- Used several Machine Learning techniques like Logistic Regression, SVM, XGBoost, DNN to perform comparative analysis. Obtained highest accuracy of 91.3% using **XGBoost**.
- Tools: TensorFlow, Keras, Flask, Beautiful Soup, Python.

COVID-19 Help Desk

Sep'21 – Oct '21

- Created a real-time web application to provide information about the availability of beds and vaccines to users based on their location, during the severe second wave of Covid-19.
- Tools: React JS, Firebase, Material UI.

Object Detection using YOLO-v3

Aug'21- Oct'21

- Developed a computer vision model that can detect basic objects in frame of the camera, and announce objects in vision, to help visually impaired people.
- Tools: TensorFlow, OpenCV, Darknet-53, YOLOv3, Python.

Maze Solver

Sep '20 – Oct '20

- Objective: Used various algorithms (DFS, BFS, Dijkstra, A*) to solve a maze problem from given input image.
- Tools: C++, OpenCV, Chrono.

INTERESTS AND ACTIVITIES

Head of Coding Club at JNTUHCEH- Conducted various activities to enhance the learning and teamwork culture at JNTUHCEH.

Quest Coding Competition, 2019- Secured First Place in a Coding Hackathon held at undergraduate level.