

SANDHYA AMMASI

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EDUCATIONAL QUALIFICATION

University of Houston

Master of Science in Engineering Data Science

Sri Krishna College of Engineering & Technology

Bachelor of Engineering in Computer Science & Engineering

SKILLS

Languages: Java, Python, C, C++, C#

Web Technologies: HTML CSS JavaScript, Angular, Django, Rest API

Machine Learning Libraries: Numpy, Scikit-learn, Pandas, Pytorch, OpenCV, Scipy, Matplotlib, PyWebIO, Tensorflow.

Databases: MySQL, MongoDB, Oracle, Postgres

Cloud Environment: AWS

Data Viz tool: PowerBI, Tableau

Web Scrapping Libraries: BeautifulSoup, Scrapy, Selenium.

PROFESSIONAL EXPERIENCE

University of Houston - College of Optometry- Data Scientist

August 2022 – May 2023

- Currently working on “Neural selectivity in free-viewing NHP(marmoset) ” research at [Nurminen Lab](#).
- Data Collection, Cleaning, Analysis of the neural activity responses from the marmoset
- Created an application to visualize the neural responses in an intelligible format(real-time graphs and plots)

Goldman Sachs – Risk Engineering Summer Analyst

June 2022 – August 2022

- Monitored, analyzed the risk exposure of the given portfolio and built dashboards to present to the stake holders
- Automated a functionality which previously required human efforts and intervention(2-3hrs/week) to resolve the problem when signing off on a given asset.

HCL Technologies – Senior Data Analyst

Nov 2020 – Jun 2021

- Individually developed helper functions and libraries to automate the dashboard creation for weekly/monthly report files.
- Worked with complex data analysis, methodologies, and predictive data models for assessing outcomes.

WhiteHat Jr – Curriculum designer & Instructor

Jul 2020– Jun 2021

- **Developed** curriculum for Game development course and Machine Learning course (Grade 10-12)

Accenture Services Pvt Ltd – Associate Software Engineer – Data Analyst

Aug 2015 – Jul 2016

- Built plug-in’ and added functionality to the tools responsible for the DOD supply chain management tasks
- Prepared dashboard, reports, imparted new structures to analyze and increase the success rate
- Monitored, scheduled, prompted the departure/arrival time records and built new solutions to resolve the accidental mishaps that occur on-road.

PROJECTS

Nurminen Lab – Intan Reader: Application to calculate and visually analyze neural responses in "real-time" during neural recordings.

Loan Approval Detector: Neural network model to predict the loan approval - Python & Django framework for in/output

Black Shades Filter: A pose estimation project written in JS that applies the filter when face is identified.

Rock -Paper-Scissors: Deep Learning AI project using OpenCV & tensorflow– (collects the training set image after execution)

Store Sales Prediction: A sales prediction project with Kaggle dataset, used XGBoost algorithm for the prediction. Optimized the solution to reach the top 25 percentile of the submissions.

Gym tracker: AI app that detects the pose & counts the reps. Written in python, used MediaPipe and OpenCV to render results

ACHIEVEMENTS AND ACTIVITIES

- Vice president of SKCET DSA (data structures & algo) club 2014-2015
- 3rd price Accenture Innovation Challenge 2016