

SANDHYA AMMASI

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EDUCATIONAL QUALIFICATION

University of Houston

Master of Science in Engineering Data Science

August 2021 – May 2023

Sri Krishna College of Engineering & Technology

Bachelor of Engineering in Computer Science & Engineering

August 2011 – May 2015

SKILLS

Languages: Java, Python, HTML, CSS, JavaScript

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

Web Scrapping Libraries: BeautifulSoup, Scrapy, Selenium.

Frameworks: Django Rest, Apache Spark, Hadoop, Map Reduce

Databases: MySQL, MongoDB, Oracle

Cloud Environment: AWS – EC2, IAM, S3, Auto Scaling

Data Viz tool: PowerBI, Tableau

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.

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

Medical Expenditure Predictor: ML project to predict the medical expenditure with inputs such as smoking habits etc.

Loan Approval Detector: Built a neural network model to predict the loan approval for a customer, used Django framework to enter inputs and display 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