SANDHYA AMMASI

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EDUCATIONAL QUALIFICATION

University of Houston **August 2021 – May 2023**
Master of Science in Engineering Data Science
Sri Krishna College of Engineering & Technology **August 2011 – May 2015**
Bachelor of Engineering in Computer Science & Engineering

SKILLS

Languages: Java, Python, R, HTML, CSS, JavaScript
Machine Learning Libraries: Numpy, Scikit-learn, Pandas, Pytorch, OpenCV, Scipy, Matplotlib, PyWebIO, Tensorflow.
Web Scrapping Libraries: Beautiful Soup, Scrapy, Selenium.
Frameworks: Django Rest, Apache Spark, Hadoop, Map Reduce, AngularJS, Spring Boot

Databases: MySQL, MongoDB, Oracle
Cloud Environment: AWS – EC2, IAM, S3 , Auto Scaling
Data Viz tool: PowerBI, Tableau

PROFESSIONAL EXPERIENCE

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.
- Provided **technical assistance** and built understanding among partners about the effective use of data.
- **Collected, analyzed**, and **reported** client data on weekly/monthly basis

WhiteHat Jr – Curriculum designer & Instructor **Jul 2020– Jun 2021**

- **Developed** curriculum for Game development course (Grade 8- 12)
- **Developed** curriculum for Machine Learning course (Grade 10-12)
- Among **Top 10%** instructors with **4.8 rating**.
- Initiated the knowledge transition plan (KT) - Conducted regular trainings for instructors on the platform.

Accenture Services Pvt Ltd – Associate Software Engineer – Data Analyst **Aug 2015 – Jul 2016**

- Created new & closed old stores – As a team of 3, visualized the data, **built strategies** for introducing new outlets that increased the client's profit (**1.75**% ↑). Wore down the pre-existing outlets by calculating various parameters and considering the important features.
- Maintained the Supply Chain - Prepared dashboard, reports and analyzed the success rate and **imparted new structures** that increased the success rate (no. of customers per day). Built new solutions to resolve the accidental mishaps that might occurred on-road and scheduled, prompted, monitored the departure/arrival time records.
- **Implemented** Holiday plans – Scheduled and planned **management of outlets** and supply chains for specific days and areas.
- Monitored the online module - Check the customers usability of the online module throughout the day.

PROJECTS

Bus Management System: Created web application using PHP, JavaScript, HTML & CSS, which was later used in the College transport department
Medical Expenditure Predictor: ML project to predict the medical expenditure with inputs such as smoking habits etc.
Social Media Sentiment Analysis: A complex EDA on web scrapped data and heavily uses NLP methods.
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.
Airport Data Analysis, Covid Analysis, IPL Cricket EDA: Created a Tableau Dashboards.
Google Product Usage Analysis: Created PowerBI Dashboard.
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