Jayesh Prasad Anandan

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Education

Indiana University - Bloomington, Indiana, USA CGPA - 3.95/4
Master of Science in Data Science *August 2022 – May 2024*

Anna University - Chennai, India CGPA - 8.62/10
Bachelor of Engineering in Electrical and Electronics Engineering *July 2016 – May 2020*

Technical Skills

Programming Languages: Python, SQL, Java, C, C++, Unix, HTML, R, MySQL, PostgreSQL
Frameworks and Libraries: PySpark, Keras, Tensorflow, Pytorch, pandas, NumPy, Matplotlib, Scikit-Learn, NLTK
Tools: Apache Hive, AWS Cloud, AWS Quicksight, AWS RDS, AWS Lambda, Jupyter, Git Version Control, SAS, AWS Snowflake
Certifications: Deep Learning Specialization, Machine Learning, SAS Visual Analytics, Google Analytics

Professional Experience

Indiana University Bloomington Bloomington, Indiana
Part-Time Marketing Data Analyst *April 2023 – Present*

- Tracked marketing campaign metrics across all 9 Indiana University campuses using Google Marketing Platform, communicated industry trends and highlighted opportunities to various schools to improve student admissions, site quality, and overall engagement.
- Engaged in quality control testing and built dashboards using Tableau and Google Looker Studio to assist the University's marketing efforts.
- Introduced a novel approach to update all tags and triggers, within Google Tag Manager, across multiple campus websites during domain migration ensuring a smooth migration with a 24% decrease in time required to migrate.
- Improved website loading speed by 43% through the development of an Inventory system and removed redundant tags and triggers programmatically using Python.

TATA Consultancy Services Limited Chennai, India
Data Engineer *November 2020 – July 2022*

- Designed an end-to-end ETL pipeline and utilized the services provided by AWS to build dashboards, communicate insights, and showcase trends in the data by scheduling them using Apache Airflow, all while implementing a CI/CD pipeline for efficient project management.
- Accelerated the data retrieval and writing speeds of the target database by 68% using Python, reducing the time between data transfers.
- Enhanced the metadata-driven framework for data ingestion to AWS Cloud using UNIX from the data received and automated the generation of metadata using Python.
- Exercised strong leadership skills while managing a team of Junior Data Engineers, ensuring successful project completion through effective teamwork, collaboration, and mentorship.

TATA Consultancy Services Limited Chennai, India
Machine Learning Project Intern *December 2019 – April 2020*

- Pioneered a Mobile Application for Object detection of Designs and Patterns in Textile Materials using Keras and Tensorflow.
- Devised a Language Generator model to generate user stories for personalities for whom the fabric was created.
- Formulated a surveillance application to detect exam malpractice from CCTV footage using PoseNet.

Projects

Energy Consumption Forecast using Time Series Analysis *Python, statsmodels, pandas*
- Devised a model to forecast the energy usage of the top three households on an hourly basis using the Public Data from the London Datastore with the Smart Energy Meters.

Retail Sales Prediction and Analysis using Amazon Web Services *AWS SageMaker, Lambda, API Gateway, Quicksight*
- Developed a machine learning-based application that predicts the retail sales of an enterprise with the help of XGBoost Algorithm implemented using AWS Sagemaker and Deployed the endpoint of this model as an API with AWS Lambda and AWS API Gateway.

Polycystic Ovary Syndrome Prediction using Classification Models *Pandas, Scikit-learn*
- Diagnosed whether an individual is affected by Polycystic Ovary Syndrome (PCOS), based on the data collected from 10 different hospitals in Kerala, India.

Indian Food Classification and Nutrition Generation using Computer Vision *Keras, Tensorflow, Python, CNN*
- Researched a Computer Vision Model with CNNs to detect Indian Foods and yield % Daily Value of nutrition.
- Collected thousands of images taken at the cafeteria and applied image augmentation and segmentation for training and testing the model for its capabilities.

Object Detection and Recognition of Patterns and Designs of Textile using Deep Learning *Keras, Python, CNN*
- Created a custom mobile application for detecting the patterns and designs of textiles designed for dignitaries.
- Enforced Yolo – Real-Time Object Detection for detecting the designs and patterns and generated custom stories for each textile by incorporating their life stories and achievements.