JAINAM AVLANI

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EDUCATION

University of Illinois at Urbana Champaign

Master of Science, Information Management GPA

GPA: 3.9/4.00

Aug 2021 – May 2023

• Emphases in Data Statistical Model & Information, Programming in Analytics and Data Processing, Data Warehousing and Business Intelligence

Thadomal Shahani Engineering College, India

July 2016 - May 2020 GPA: 8.4/10

Bachelor of Technology, Information Technology

Emphases in Database & Management Systems, Data Structures and Algorithm, Data Mining, Management Information Systems

TECHNICAL KNOWLEDGE

- Technical: Python, R, SQL, Java, C#, C, TCP/IP, CISCO Wireless Network, HTML, CSS, REST, Amazon Web Services
- Python Libraries: NumPy, Pandas, Matplotlib, TensorFlow, NetworkX, Pytorch, BeautifulSoup, OpenCV, DeepChem, Transformers, RDKit
- Machine Learning: Supervised Learning Classification (Linear Regression, Decision Tree, Random Forest), Unsupervised Learning Methods (K-Means Clustering, Principal Component Analysis [PCA])
- Analytics Tools: Tableau Desktop, Power BI, Microsoft Office Suite
- · Project Management Tools and Framework: Agile and Scrum Development, Kanban, Jira

EXPERIENCE

TSS Consultancy Private Limited, India – Software Developer

Nov 2020 - July 2021

- Upgraded financial software of banks for customer verification to predict financial crime
- Revamped Microsoft SQL Server Database and added recruits to the databases, increasing retrieval speed by 20%
- Managed change requests, trouble calls and worked with the team to resolve them effectively reducing the bugs encountered by 25% over each sprint
- Administered specific software needs and requirements of 5 banks
- · Promoted Agile software development framework, enabling periodic task delivery to the client, hence increasing customer satisfaction

Docsumo, India - Data Science Intern

May 2019 - July 2019

- Automated ETL pipeline using AWS Glue, Lambda, Athena, and reduced data retrieval by 30%
- Developed Python scripts to enable efficient pre-processing of data and estimation using classification models
- Analyzed the market of OCR, focused on the region-wise market analysis using Power BI dashboards, helping stakeholders make data-driven decisions

ACADEMIC PROJECTS

Business Intelligence Group - Senior Technical Consultant (Champaign, US)

Jan 2022 - Present

- Coded and deployed Python scripts for extraction, cleaning, and pre-processing of data from the data warehouse
- Employed text-mining methodologies using Python's NLTK to automate the classification of different species of trees
- Stored the research data and scripts in AWS S3 bucket and created custom dashboards to visualize findings on Tableau using AWS Athena

Machine Learning Modeling for Reactivity of Organic Contaminants in Engineered and Natural Environment

Jan 2022 - Present

 Restructured the neural network to help identify OCs of concern and optimize the treatment processes by using molecular transformers and ensemble model which consists of multiple fine-tuned models, increasing model confidence by 10%

Researched methods to implement machine learning models to predict the reactivity of organic contaminants (OCs) in engineered and natural environments

Goodreads Book Analysis (Full-stack Data Science Project)

Oct 2021 - Dec 2021

- Extracted data from the list of best books ever from the Goodreads API using BeautifulSoup
- Cleaned, analyzed, performed EDA, and implemented visualization techniques on the dataset using Python's Pandas and Seaborn
- Created a MySQL database to store the acquired data and derived insights using Power BI
- Configured a Recurrent Neural Network to implement Natural Language Processing to classify the genre of books based on the book's description. An
 accuracy of 98% was obtained on the test dataset

Flight Fare Prediction

Jan 2021 - Mar 2021

- Extracted and pre-processed the 2019 flight fares data of domestic flights in India to perform regression algorithms
- Applied visualization techniques using Matplotlib to deduce knowledge about the correlation between independent and dependent variables
- Compared different regression models using k-fold cross-validation, eventually implementing RandomForestRegressor using RandomizedSearchCV for hyperparameter tuning
- An accuracy of 83% and 95% were obtained on test and train datasets

Gender Recognition System [Paper published with IRJET]

July 2020 – May 2020

- Reconfigured VGG-16 Convolution Neural Network architecture using Tensorflow and OpenCV for gender classification
- Implemented YOLO algorithm to detect and extract faces from live image feed for image classification
- Acquired an accuracy of 98% on the validation dataset

CERTIFICATIONS

- Data Science: Introduction to Data Science in Python (Coursera), Data Science and Machine Learning (Python), Advanced Analytics (R)
- Deep Learning: Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning(deeplearning.ai), Convolutional Neural Networks in TensorFlow (Coursera)
- Communication Skills: Certification in Communication Skills exams till grade 3 from Trinity College, London, and secured a distinction in all the exams

CO-CURRICULAR

- Working as a Course Assistant at the GIES Business School for subjects like Leadership and Data Analytics
- Volunteer for India Development Foundation (Project PH12), for awareness about using sanitary pads.