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Sujay Patil

AWS Certified Cloud Practitioner

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EDUCATION

George Mason University, Master of Science

Major: Data Analytics Engineering GPA: 3.93/4.00

Aug 2021 — May 2023

Coursework: Data mining for Business Analytics, Principles of Data Mining, Visualization for Analytics, Introduction to Natural Language Processing.

University of Pune, Bachelor of Engineering

Major: Computer Engineering GPA: 8.24/10.00

Aug 2016 — May 2020

SKILLS

Programming Languages	Python, R, Java, C, C++
Big Data Tools	Hadoop, Apache Spark
Database	MySQL, MongoDB
Framework	Pandas, Numpy, Scikit-learn, Matplotlib, PyTorch, OpenCV, NLTK, TensorFlow, ggplot
Tools	Jupyter, Google Colab, Tableau, Microsoft BI, Zeppelin
Cloud Services	AWS(EC2, Kinesis, RDS, DynamoDB), Docker, Git, GCP, Azure, Snowflake

PROJECTS

Federal Aviation Administration - Analysis of Aircraft maneuvers

Jan 2023 — May 2023

- Analyzed helicopter simulation data provided by FAA to predict specific rotorcraft maneuvers.
- Led data cleaning and visualizations, processing 10000+ records in Python, Tableau, and SQL for analyzing aircraft patterns.
- Integrated a physics-based approach and Principal Component Analysis with Autoencoder technique to reduce dimensionality of large dataset from 108 features to 35.
- Implemented machine learning models, achieving over 90% accuracy in predicting and mitigating risks in rotorcraft maneuvers.

Impact of Covid-19 on Airline Industry in U.S

Mar 2022 — May 2022

- Compiled and prepared 7 years of U.S airline passenger travel data in Python and R.
- Built a regression model to predict the timeline for the airlines to recover from the pandemic.
- Demonstrated expertise in Python, Tableau, and Excel to create impactful visualizations highlighting the most impacted airlines.
- Researched and analyzed over 20 sources to produce a detailed research paper with comprehensive analysis; showcasing skills in research, analysis, and communication.

Bank Term Deposit Prediction

Oct 2021 — Dec 2021

- Built a predictive model on the bank dataset, anticipating whether the client subscribed to a term deposit.
- Conducted data processing on 1000+ records, identifying and addressing 98% of missing values, outliers, and irrelevant attributes.
- Proposed multiple machine learning techniques to see which algorithms yielded the highest accuracy for the dataset.
- Identified that highest accuracy gained was from Random Forest, which obtained an accuracy of 89%.

EXPERIENCE

Assistant System Engineer

Oct 2020 — May 2021

Tata Consultancy Services

Pune, India

- Led as a Java developer on a project of State Bank of India, to centralize banking application database.
- Implemented modules in GBSS (Global Banking System Services) to ease tax collection for the customer.
- Created a report dashboard for easy analysis of daily transactions useful for the top management.
- Reduced server transaction times by 45% resulting in an improvement in operational speed and efficiency.
- Coordinated as a support engineer for Vodafone - resolved technical glitches and formulated solutions.

Student Scientist at Makers Lab (Intern)

Jan 2019 — Mar 2019

Tech Mahindra Limited

Pune, India

- Engineered an "HTML code Generator" project that simplified website creation for customers by up to 80%.
- Developed a tool that generates web page code from layouts and wireframes drawn on paper via photographs.
- Coordinated 100% of in-house data collection and acquired 500+ image datasets for training purposes.
- Tested CNN modules for pattern and image recognition with an accuracy of 78%.

PUBLICATIONS AND CERTIFICATIONS

- Patil, S.** Data Transmission Using Crypto-Steganography. Scopus Journal (2020)
- AWS Certified Cloud Practitioner - Reg No: 427329225