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ABOUT ME

As an aspiring data scientist, I am enthusiastic about beginning my journey in the field of data science. Armed with foundational knowledge in programming languages like Python, SQL and R and have experience with data visualisation tools like Tableau and Power BI, I am eager to dive into the world of data analysis, machine learning, and statistical modeling. With a strong aptitude for problem-solving and a passion for continuous learning, I am committed to acquiring new skills and gaining hands-on experience to make meaningful contributions in this rapidly evolving field.

EDUCATION AND TRAINING

Master's in Data Science

University of Naples Federico II [31/08/2021 – 20/03/2026]

City: napoli | Country: Italy | Website: <https://www.international.unina.it/> | Final grade: Total average of 99/110

5g Academy Graduate

5G Academy - Napoli [16/03/2024 – 18/12/2024]

City: napoli | Website: <https://www.5gacademy.unina.it/en/academy-en/5gacademypostgraduate-en.html>

Application Developer

Apple Developer Academy - Napoli [20/09/2022 – 31/07/2023]

City: napoli | Country: Italy | Website: <https://www.developeracademy.unina.it/en/>

Bachelor's in Information Science Engineering

Rao Bahadur Y Mahabaleshwarappa Engineering College [2014 – 2020]

City: Ballari | Country: India | Website: <https://www.rymec.in/>

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Hindi

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

kannada

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Italian

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Database : MySQL(basic) / Html, Java, CSS / apache spark / Python / Microsoft Office (Word , Excel and Power Point) / Git / C C++ C Languages / Data Visualisation with Tableau / Power BI / Swift / Swift UX/UI / Figma & Sketch / Statistical Data Analysis / Machine Learning / R / Neo4j graph database

PROJECTS

[19/03/2024 – 18/12/2024]

SmarTrAlner It is a project that combines technology and creativity to revolutionize cognitive rehabilitation. It offers an advanced infrastructure for cognitive rehabilitation and support for patients through innovative therapeutic practices. The project aims to evaluate and stimulate this ability through dedicated questionnaire and specific activities to enhance memory in its various components. The application evaluates the patients cognitive level and memory efficiency through linguistic tests and autobiographical memory interview. The infrastructure of this application uses AICodium to create knowledge bases. We used the robot Furhat for a personalised interview experience for the user. This application also includes cognitive games to stimulate the cognitive memory. The neo4j database was created and using FastRP and cosine similarity algorithms we identified the connections between the data highlighting those most relevant to the user for a personalised experience.

Time Series Forecasting (Air Passenger Forecasting) I build a model to determine how many number of passengers are going to aboard to the airlines in future at the month label. In this project, I perform a rolling statistics test and a Dickey-Fuller test to check the stationarity of the data and I used an ARIMA model which is best suitable for the Time series analysis.

Statistical Data analysis (white wine datasets) I developed a classification model for the datasets and created a binary variable named "exquisite" and divided it into training and testing data for balanced performance. The model included a Logit model, Decision trees and random forest to classify the exquisite wines. Among all the models that I performed, the random forest model gave an impressive test accuracy outperforming all other models.

Damage Propagation of a Turbofan Engine Developed a predictive maintenance model to estimate the Remaining Useful Life (RUL) of turbofan engines as part of a data mining course. Leveraged time-series data to train and evaluate multiple machine learning models, including LSTM, AGRU, XGBoost, and Random Forest, achieving high accuracy with AGRU and rapid real-time deployment potential with XGBoost. Conducted extensive data preprocessing, feature engineering, and exploratory data analysis to optimize model accuracy and computational efficiency, enabling timely, condition-based maintenance, reducing engine failure risks, and optimizing operational costs in aviation.

Household electricity demand forecasting (Thesis) Developed a short-term household electricity demand forecasting framework using the smart Home dataset with 15-minute resolution under a strict chronological evaluation protocol. Compared baseline, statistical, machine learning, and deep learning models, identifying tree-based methods as strong performers for high-frequency prediction. Implemented a Physics-Informed Machine Learning (PIML) approach by combining a temperature-based thermal model with an XGBoost residual learner, achieving improved interpretability and robust performance. Extended the work to probabilistic forecasting and uncertainty analysis, enabling insights into demand variability and supporting decision-making applications such as peak load management and energy optimization.

HOBBIES AND INTERESTS

Travelling, Painting, Reading, Cricket, Sports, Cooking, Experiencing new things.

COMMUNICATION AND INTERPERSONAL SKILLS

Effective Verbal Communication, Active Listening, Adaptability, Conflict Resolution, Cross-cultural Communication, Presentation Skills, Collaboration, Team Player.