MONCI MAMACHAN

Date of birth: 20/10/1996 | **Place of birth:** Dublin, Ireland | **Nationality:** Indian | **Phone:** (+353) 0899642672 (Mobile) | **Email:** moncimamachan8547@gmail.com | **Website:** https://www.datascienceportfol.io/Monci_Mamachan | **LinkedIn:** https://www.linkedin.com/in/monci-mamachan/ | **Github:** https://github.com/monci-mamachan628 | **Address:** DUBLIN, Ireland (Home)

ABOUT MYSELF

"Uncover Insights, Inform Decisions."

Highly motivated Data Scientist with a master's in data science for Management, seeking to leverage Python, R, SQL, and Tableau/ Power BI skills to unlock actionable insights and drive business growth. Proven track record in leveraging advanced analytics and machine learning to extract valuable insights from complex datasets for complex projects. Skilled in data cleaning, transformation, and visualization, with expertise in tools like TensorFlow.

WORK EXPERIENCE

MDB- FINANCIAL CONSULTANCY – CATANIA, ITALY

DATA ANALYST- INTERN – 10/2024 – 12/2024

Migrated local projects to GitHub for version control and team collaboration.
Set up CI/CD pipelines for automated integration and deployment.
Automated deployments to Firebase and Google Cloud for seamless production updates.
Improved deployment efficiency by reducing manual processes through automation.
Configured Firebase Security Rules for enhanced application security.

ST MICROELECTRONICS – CATANIA, ITALY

INTERN – 12/2022 – 06/2023

Developed application software for video magnification using MATLAB, enhancing visibility of subtle motion in visual data.
Learning motion magnification theory and its application in Artificial Intelligence, to implement it in laboratory settings for predictive reinforcement learning and reliability maintenance of power devices.
Analyzed technical challenges and collaborated with cross-functional teams to design effective solutions.
Provided project progress updates and proposed solutions to issues.

EDUCATION AND TRAINING

10/2020 – 12/2023 Catania, Italy

MASTERS IN DATA SCIENCE FOR MANAGEMENT UNIVERSITY OF CATANIA

Courses : Big data for Smart Manufacturing, Cloud Computing, Data Base and Big data Analytics, Data Science Deep Learning, Advanced Machine Learning, Behavioral Economics, Advanced Machine Learning and Knowledge Discovery, Data Mining, Neural Computing, Data Analysis and Statistical Learning.

Website https://www.unict.it/en | **Field of study** Data Science for Management | **Thesis** Learning Motion Magnification theory/application

2015 – 2019

BACHELOR OF TECHNOLOGY ENGINEERING - COMPUTER SCIENCE APJ Abdul Kalam Technological University

Courses : Computer Organization & Architecture , Programming Languages , Compiler, Data Structures or Information Technology Foundation , Discrete Mathematics and Data Communication & Computer Networking, Operating System, DBMS, AI

Thesis College Enquiry Chatbot

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	C2

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ITALIAN	B1	B1	A2	B1	A2

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

SKILLS

Linux | Microsoft Azure, Microsoft 365 | Github | Power BI | Google cloud platform | R, R Studio, R Markdown | Microsoft Office (Outlook, Excel, Word, PowerPoint) | Tableau | SAS | SPSS

Programming

R | Python Libraries (Numpy-Pandas-seaborn-Matplotlib) | C | Database System: MySQL | programming: Python, MATLAB and SQL

Soft Skills

Strong Communication skills | Time Management Skills | Strong work Ethic | Problem-solving mindset and analytical thinking | Result Oriented | Creative Thinking | Critical Thinking

PROJECTS

Implement a deep-learning pipeline for classification of pneumonia in X-Ray images.

Designed and implemented a robust deep learning pipeline for the detection and classification of pneumonia from chest X-ray images. Key aspects include data preprocessing and augmentation techniques, such as SMOTE for class balancing, as well as fine-tuning of state-of-the-art deep learning models (VGG-16 and ResNet-50) to achieve strong performance on real-world medical imaging data.

Technical Skills : Python libraries like Pandas , NumPy and ETL data analysis(EDA), Hypothesis testing, Logistic regression analysis, correlation studies, machine learning algorithms applied for tasks such as classification, clustering, or regression.

Renewable Energy Dashboard - [Power BI | Excel]

Developed an interactive Power BI dashboard for wind and solar plants, leveraging advanced DAX measures and dynamic visualizations to analyze key performance indicators (KPIs) such as capacity factor, plant availability, energy yield with statistical analysis. Implemented detailed drill through reports and heatmaps to provide in-depth insights into the correlation between variables like wind speed, solar irradiance, and active power generation, enabling stakeholders to make data-driven decisions and optimize plant operations.

HR Data Analytics - HR Domain [Power BI | Excel]

Designed a Power BI dashboard to track employee data for the HR team, including working hours, attendance, performance, and leaves. The dashboard streamlined HR processes and increased efficiency. This dashboard can save 3-4hrs work for the HR daily.

Enhancing Car Loan Approvals: Leveraging Random Forests for Risk Prediction

Utilized a random forest algorithm to enhance the accuracy of car loan approvals and minimize default risk. The project involved comprehensive data preprocessing, model development, performance assessment using financial indicators, and hyperparameter optimization, demonstrating the real-world value of machine learning in financial decision-making.

*Technical Skills***:** Machine Learning, Random Forest, Financial Risk Analysis, Model Optimization

Data Visualization using TABLEAU and Google Data studio

Data visualization and analysis of the data sets using Tableau software. Understand the trend, insights, patterns, and other connections in a Dataset from dashboards and worksheets. Analysis and visualization of World Happiness Index data set by UN Sustainable Development Solutions Network using Google Data Studio.

Technical skills: Google Data Studio, Big query

Twitter Sentimental Analysis

Used Machine Learning and Natural Language Processing to identify the sentiment of tweets dataset.

Technical Skills: Natural Language Processing (NLP), Embedding.

Image classification using Convolutional Neural Networks

Image classification using Convolutional Neural Networks (CNNs) is a common task in computer vision, and PyTorch is a powerful framework for building such machine learning models. Collect, synthesize and analyze complex data by applying Advanced Analytics techniques.