

PATIBANDLA CHANDRIKA

Data Analyst

OBJECTIVE

As an individual with a strong passion for Data Analysis and a keen interest in Data Visualization, I am applying for the Master's program in Data Science and Artificial Intelligence. I am eager to delve deeper into this field, taking my steps towards research. I am committed to developing my abilities further, with the aspiration of becoming a proficient researcher in the future. I am actively seeking an academic environment that will challenge me and allow me to contribute to the advancements in the field of data science.

EXPERIENCE

Data Analyst

Next2u | Pescara | Italy | February 2023 – August 2024

I serve as a Data Analyst at Next2U Srl, where my core responsibility revolves around in-depth research on avant-garde technologies related to cognitive detection. My role extends to the data collection with "Cortivision fNIRS PHOTON CAP", and applying data analysis techniques using MATLAB, allowing me to offer insightful analytical assessments of subject data.

Technical Support Co-coordinator

Mouktik Consulting Service | Hyderabad |India | Jan 2018 – Sep 2019

As a Technical Support Coordinator, I ensured prompt resolution of issues providing technical resolution to Volvo trucks and buses. Committed to delivering superior quality and exceeding client expectations, I consistently provided efficient and timely support. Recognized for strong leadership skills, I advanced to the role of Assistant Team Leader, where I guided team members to achieve goals. My tenure at Volvo enriched my expertise in technical support coordination, leadership, and customer service.

SEO Executive

Digital Interakt | Hyderabad |India | June 2017 – Nov 2017

As an SEO Executive, I ensured high rankings and increased traffic for web pages. Implemented proven optimization strategies, including keyword research, content optimization, building quality backlinks, and analyzing website analytics data. Actively contributed to informed decision-making for optimizing website traffic and search engine rankings.

Internship

Knowledge Matrix | Hyderabad |India | Jan 2017 – May 2017

Contributed to a project on Hybrid Cloud Approach for Secure Authorized Deduplication. Collaborated with a team under senior guidance to develop a strategy for secure and efficient data deduplication. Involved in project planning, research, and implementing technical solutions. Gained insights into cloud computing, data security, and project management for future application.

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EDUCATION

Masters in Data Science | University of Central Missouri | USA | Kansas | 2024 – (Current) | GPA: 3.83

Masters in Computer Science | Università degli studi di Bari Aldo Moro | Bari | Italy | 2019 – 22 | Score: 100/110

Bachelors in Information Technology | Vignan University | Guntur | India | 2013 – 17 | Percentage: 71%

CERTIFICATION

Exploratory Data Analysis with MATLAB
by MathWorks | Coursera | 2023

TECHNICAL SKILLS

- Data Visualization
- Data Analysis
- Python: Pandas, NumPy, Matplotlib
- Website Wireframing
- Web design
- Technical support
- Research
- Technical research documentation

PROJECTS AND PUBLICATIONS

Publication Title: Assessment of Cognitive Workload During Flight Training by Means of Hybrid NIR/LWIR Imaging. | 2023

Link: <https://doi.org/10.1109/TechDefense59795.2023.10380919>

Operating aircraft under challenging conditions is a complex mental task, even with the advancements in flight technology. It's essential to monitor the pilot's mental workload to enhance safety and performance. At the same time, it's important to ensure the pilot's ability to move freely around. Therefore, this research presents a novel non-intrusive way to perform the assessment of MWL, relying on pure multispectral imaging ML model, accomplished by Computational Psycho-Physiology Module (CPM) specifically developed.

Data Visualization

TABLEAU | 2022

My Master's thesis centered on data visualization, which is a valuable tool for presenting complex data in a clear and accessible way. Using data visualization software, I investigated common misuses of charts and graphs and proposed methods for enhancing visualization quality. I focused on improving charts that are used in EY reports, analyzing them for the case study. To create alternatives, I employed tools such as Tableau, Python, and Excel while adhering to established design rules and best practices. This research deepened my understanding of data presentation and equipped me to design visualizations for diverse audiences.

Healthcare Data Analysis with Machine Learning to predicting hemoglobin levels

Python | Machine Learning | 2021

In this project, objective is to identify the most accurate machine learning algorithm for predicting dependent variables in healthcare data. This extensive research led me to the Random Forest algorithm, a supervised learning method, which showed the highest accuracy and lowest error rate. Specifically, it achieved an impressive 86.21% accuracy in predicting hemoglobin levels.

Further, also delved into unsupervised learning, where the k-means algorithm and PCA dimension reduction resulted in well-separated clusters.

Overall, this project enhanced the understanding of various machine learning algorithms and their performance evaluation.

Promoting Cultural Heritage: Enhancing Visitor Engagement in Museums through an IoT-Enabled Interactive Quiz Game

Tinkercad | Node Red | 2021

The objective is to enhance visitor engagement in museums using IoT technology.

Developed an interactive quiz game for museum exhibits. Clues were displayed on screens near exhibits, educating players about the exhibit and rewarding participation.

Implementation: The simulation is developed using the Tinkercad- a virtual prototyping tool for IoT devices. Node-RED - for managing data flow and displaying dashboard results.

TOOLS

- MATLAB
- Tableau
- Power BI
- Infogram
- FIGMA
- WordPress
- Wix

SOFT SKILLS

- Adaptability
- Communication
- Collaborative
- Problem solving

LANGUAGES

- English (B2)
- Italian (A2)