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## CAREER SUMMARY

- A Data science enthusiast with a strong understanding of machine learning algorithms. Seeking an opportunity to collaborate with a team to develop robust machine and deep learning models that have a tangible impact on Organization quality. Committed to furthering my career in this dynamic field while contributing to the success of the organization.
- Github Link: Ananthasayanan - (NaniNorris)
- LinkedIn Link: Ananthasayanan-ch

## KEY SKILLS

- Programming Languages: Python (including Tensorflow)
- Data Manipulation and Analysis: Excel | SQL | Pandas | NumPy
- Data Visualization: Matplotlib |Seaborn | Plotly | Tableau | PowerPoint | Draw IO
- Machine Learning: Regression | Classification | Clustering | NLP | Prompt Engineering & Generative AI Basics | Computer vision
- Soft Skill: Strong problem-solving and analytical skills, Excellent communication and collaboration abilities

## PROFESSIONAL SUMMARY

**Finance Analyst, ITC Ltd. SBU Packaging and printing** **MAY, 2021 – Dec, 2022**

- Conducted comprehensive sales trend analysis for each customer, aligning the findings with the planned targets. Effectively visualized and presented the analysis to top management, facilitating informed decision-making.
- Collaborated closely with cross-functional teams including materials, production, and marketing, gaining valuable insights into raw material market trends. Utilized this knowledge to support the marketing team in negotiating pricing agreements with customers, ensuring competitive pricing strategies.
- Delivering monthly interactive visual dashboard reports, consolidating crucial information such as customer-wise and product-wise trends, contribution analysis, raw material mix, price trends, and wastage reports. This streamlined approach provided stakeholders with a centralized and comprehensive overview, enhancing decision-making processes.

**Achievements**

1. Collaborated closely with the IT team to successfully develop and implement an automated sales reporting system. This system included a visually intuitive dashboard that effectively tracked and compared daily sales against targets, both on a customer and product level.
2. Developed Macros to simplify and manage day to day activity more efficiently, thus saving 2 hours of work per day.

## ACADEMIC – DATA SCIENCE PROJECTS

- **Project 1: Airbnb instant bookability status classification – Machine Learning**
  **Objective:** Assist host in better management and maximizing the booking potential with a robust classification model which predicts the instant bookability status based on various services provided by the host.

  **Approach:**
  - Utilized Airbnb dataset of multiple cities and understood the various pattern led to instant bookable status through EDA process
  - Performed necessary Preprocessing like encoding, scaling, treating outliers, Feature selection, Feature engineering etc.
  - Build various model like Logistic regression, Decision tree, XBG boost, Random Forest, Cat boost etc. Used various model evaluation metrics and by hyperparameter tuning got the best model.

  **Tools used: For ex- Python, NumPy, scikit-learn, pandas, Streamlit**

- **Project 2: Sign Language detection – Computer vision (Deep learning)**
  **Objective:** Developed a robust sign language recognition system with the aim of accurately identifying and interpreting sign language gestures from video input. This project was driven by the imperative to provide inclusive and accessible communication tools for the Deaf and hard of hearing community.

  **Approach:**
  - Utilized the Mediapipe holistic model to extract landmark data points encompassing the face, pose, left hand, and right hand, enabling comprehensive gesture analysis.
  - Conducted an in-depth dataset analysis, encompassing identification of missing values, outlier detection, determination of average frame counts, and analysis of landmark frequency distribution, etc.

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- Leveraged dataset insights to extract 80 relevant key points from the original 543 landmarks per frame. A critical step involved interpolating the time axis to achieve a consistent size of 160, resulting in a data dimension of 160x80x3.
- The project architecture was akin to audio spectrogram classification, employing powerful models such as ResNet and EfficientNet, with an input size of 160x80x3, to facilitate robust and accurate sign language recognition.

**Tools Used: Python, Mediapipe, Tensorflow, Scikit-learn, Streamlit, Pandas, NumPy, Seaborn, Plotly**

- **Project 3: working on AI Resume Generator (NLP, Generative Artificial Intelligence)**
  **Objective:** Pioneered the development of an innovative personalized resume builder application, employing the power of Natural Language Processing (NLP) and Generative Artificial Intelligence. This app, designed using Streamlit and open-source language models (CPU-based Large Language Models), empowers users to input their personal information and skills, subsequently generating tailor-made resumes in PDF format for seamless sharing.

  **Approach:**
  - Harnessed the capabilities of open-source Large Language Models (LLMs) to create a sophisticated and professional-level language application.
  - Employed Streamlit to construct a user-friendly web-based interface, facilitating the collection of personal information and skills from users with utmost ease and convenience.
  - Leveraged the Langchain prompt engineering technique to fine-tune the LLM model, ensuring the generation of precise and professional personalized resumes that cater to each user's unique qualifications and aspirations.
  - Integrated Docxtpl to streamline the process of generating resume PDFs, offering users a predefined template for their professionally crafted resumes.

  **Tools used: Python, Langchain, Streamlit, LLM, docxtpl**

## HACKATHONS/OTHER CERTIFICATIONS

- Hackerank: Python - Basic & SQL - Basic, Intermediate, Advanced.

## EDUCATION

| Course | Institution | Year | Remarks |
|---|---|---|---|
| Post Graduate Program in Data Science Engineering | Great Lakes Institute of Management via Great Learning Institute | 2023 | Completed with Excel |
| Cost and Management Accountant | The Institute of Cost Accountant of India | 2020 | 69 % |
| B.com(Accounting and Finance) | Ramakrishna Mission Vivekananda College | 2018 | 63 % |
| 12th Std | The Hindu senior secondary School | 2015 | 86 % |
| 10th Std | The Hindu senior secondary School | 2013 | 70 % |

## Interest

- Fitness
- Football
- Travelling