Vivek L Alex

Certified Datascience Practitioner

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Ⓜ Medium

SUMMARY

Engineer with proven experience in artificial intelligence application development and object oriented programming. Determined to add value to your team as a continuous learner. Excellent analytical problem solving and research aptitude using strategic methodology and requires minimal supervision. Expertise in areas of implementing and optimizing machine learning models, collecting and improving quality of data, and finding useful insights.

EXPERIENCE

- **Omdena**   *Remote*
  Junior Machine Learning Engineer   *Oct. 2021 – Present.*
  Completed:
  - Using AI to improve road safety in Hyderabad, Telangana , (Scrapping, NLP modelling task, Making Computer vision model and Docker the Project)

- **Insightsearch**   *Remote*
  Author and Maintainer   *Aug. 2021 – Present.*
  - Insightsearch is a python package for analyzing customer reviews and texts.
  - It can extract sentiments, aspect and opinions without the pain of complex workflow.
  - Insightsearch is built on on top of popular NLP frameworks include Spacy, TextBlob and NLTK.
  - Insightsearch includes rule based aspect extraction algorithms and sentiment extraction with inbuilt sentiment analyzers.

- **Futurspot.in (discont.)** [Link]

  Remote   *Developer and Technical Content Creator*
  Jan. 2021 – Present.
  - Created blogging web platform using HTML, CSS, JavaScript and Django.
  - Implemented text to speech model for the platform
  - Creating social media contents, articles and blogs on latest technological innovations around the world.
  - Optimizing content to search engine criteria

- **Algomox Pvt Ltd**   *Banglore, India*
  AI developer   *Feb. 2020 – Dec. 2020*
  - Research and implementation of solutions for real world problems using Deep learning, machine learning, NLP, and computer vision
  - Created machine learning models for banking and financial services, E commerce, and health care & life sciences
  - Work with machine learning engineers, product managers and analysts to solve problems within business context
  - Research, Develop, Deploy and optimization of deep learning algorithms
  - Developed intent classification algorithm for chat bot Norra using LSTM architecture for automating L1 IT support

- **Wintech Technology Solutions**   *Kerala, India*
  Electronics and Robotics Intern   *2017 – 2017*
  - PCB and circuit designing for different product categories

EDUCATION

- **National institute of electronics and information technology** *Calicut, India*
  Advance Diploma In Artificial Intelligence *2019 – 2019*
  Percentage: 94%

- **Cochin college of engineering and technology** *Kerala, India*
  Bachelors of Technology in Mechatronics Engineering *2015 – 2019*
  CGPA: 7.18

TECHNICAL SUMMARY

- **Data Science**: Data analysis, Machine learning, Natural language processing,Statistics, Probability, Linear Algebra, Time Series Computer vision, Data mining
- **Programming**: Python, SQL, JavaScript
- **Frameworks**: Tensor flow, Keras, Pytorch, ROS, Flask, Django
- **Analytical Tools**: Scikit-learn, PyCaret, NLTK , Pandas, Open CV, NumPy, Spacy, SciPy, Selenium, Scrapy, Beautiful soup
- **Visualization Tools**: Matplotlib, Plotly, Seaborn, Tableau
- **Others**: Git, Docker, MySQL , KiCAD , Arduino, Raspberry pi

COURSES

- Tableau training
- Deep Learning
- Data Science with Python
- Introduction to SQL
- Internet of things(Udemy)
- ROS basics, navigation(Udemy)

- Introduction to Data Analytics
- NLP and Text Mining Tutoria
- Basics of Web Scraping with Beautiful Soup
- Introduction to Neural Network

PROJECTS

- **BOSTON RESTAURANT LOCATION CASE STUDY**: [Project link]
  - ➢ Choose an Ideal Site for Designing Restaurant Using Data Science
  - ➢ Data is collected and pre-processed into clean data suitable for a machine learning model
  - ➢ Used **K-means** and **Principle component analysis** to segment Boston based on location characters.

- **SUMMARY CREATOR**: [Project link]
  - ➢ Abstractive text summarizer for english news.
  - ➢ **Scrapped Data** from News websites[Scrappers link]
  - ➢ Applied **T5 transformer** for summarizing tasks and Achieved BLEU score of .00.
  - ➢ Used **Flask** to create the app and **Dockerized** the whole project.

- **FACE RECOGNIZER WITH TRIPLET LOSS**: [Project link]
  - ➢ Studied the research paper **FaceNet** and Implemented a face recognizer.
  - ➢ Created a base model using TensorFlow and Implemented custom loss function called **Triplet Loss**

- **HEART ATTACK ANALYSIS AND PREDICTION**: [Project link]
  - ➢ EDA on the data to find insights. Implemented multiple models based on accuracy, and **recall**
  - ➢ hyper-parameter tuning using **Optuna**, models used **Decision Tree, LGBM, Logistic regression, Bagging Classifier** and **Gradient Boosting** , finally used **Voting Classifier(hard-voting)**

- **DEEP AND WIDE RECOMMENDATION SYSTEM**: [Project link]
  - ➢ Wide and **Deep recommendation system** using Tensorflow
  - ➢ Implemented **Deep and wide** architecture

- **CUSTOMER SEGMENTATION USING RFM**: [Project link]
  - ➢ Recommended marketing actions by segmenting customers on the basis of **RFM score** (Recency, Frequency, Monetary)
  - ➢ Used **k-Means** clustering and managerial perspective to make customer segments.