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Professional Summary

- Experienced professional in building Machine Learning models, Deep Learning architectures, Natural Language Processing, and full-stack web development
- Expertise in Python programming for web development and data science applications
- Adept in Machine Learning algorithms such as all Regression models, SVN, Random Forest, and XGBoost to predict classification
- Good knowledge and experience with AI architectures such as CNN, RNN, LSTM, GAN, and GRU for classification and video analytics
- Experienced in NLP projects such as Data mining, Speech Recognition, Machine Translation, Sentiment Analysis, and Chatbots
- Adept in all phases of Software Development Life Cycle (SDLC), which includes Integration, Implementation, Interaction, Business Analysis/Modeling, Documentation, and Testing of all the software applications
- Proficient in translating algorithms, ideas, and concepts to software applications and other client environment-specific tools to design the client module

Education

Texas A&M University Kingsville
Master's in Computer Science **January 2023- Present**

Sathyabama University ***July 2014 – April 2018***
Bachelor of Engineering, Mechanical Engineering

Hyderabad School of Artificial Intelligence ***April 2018- June 2018***
Data Science & Artificial Intelligence (Certification)

Key Areas of Expertise

Programming	:	Python (Core & Data Science), R
Web development	:	Django, HTML, CSS, jQuery, Bootstrap, Rest-API, and Flask
IDE & Environment	:	Jupyter Notebook, Anaconda, PyCharm, And R-studio
Database	:	SQL, SQlite3, MongoDB, and PostgreSQL
Data Visualization	:	Matplotlib, Seaborn, ggplot3, and Plotly
Machine Learning	:	NumPy, Pandas, and Scikit-learn
Deep Learning & NLP	:	TensorFlow, Keras, Open CV, NLTK, Gensim, TextBlob, and Spacy

Professional Experience

NEXTROW Private Limited (Software Developer) ***March 2022 – Nov 2022***

- Developed and presented a couple of product prototypes such as Machine Translation and Face Recognition applications from end to end using Python
- Designed data pipelines to source data from disparate data sources and Rest API framework using Python to enable Amazon Web Service cloud services
- Formulated and deployed production-grade Time-series models to forecast share price using AUTO-ARIMA, SARIMA, and FB-Prophet
- Automated and designed pipelines of cleansing, mapping, and feature engineering for model building using Machine Learning algorithms for flagging spam messages
- Analyzed and clustered unsupervised datasets to discover hidden patterns, data groupings, image analysis, and information retrieval

Meslova Systems Private Limited (Software Engineer – AI) ***May 2018 – February 2022***

- Designed and developed full-stack applications using Python, Django, Flask, HTML, CSS, jQuery, and Bootstrap as front-end and Machine Learning, Deep Learning algorithms, and Natural Language Processing techniques as backend code.
- Revamped page loading speed by 40% by implementing Lazy loading for web applications
- Streamlined Deep Learning architectures and increased accuracy by 21% for object detection using GPU-accelerated libraries
- Led and implemented Agile methodologies, SVN, and GIT repositories to enable dynamic project management and version controls for production code
- Designed and developed Interfacing components and business logic in numerous modules, handled change requests, and bugs
- Provided Tier III production support and resolved Go-Live issues of clients using the Brute Force method and Trace Points

Projects: Source code (GitHub)

Object detection using Keras - RetinaNet of satellite and non-satellite images

- Extracted all features by drawing anchor boxes and applying Reginal Proposed Network
- Recognized all objects of aerial and non-aerial images using of RetinaNet architecture

Chinese to English language translation using NLTK and Wubi

- Cleansed sentences, applied Wubi technique, and tokenized given sentences for translation
- Channeled prepared data through encoder, decoder, and applied GRU Architecture to translate text from Chinese to English

API for Detecting Spam Messages using Naive Bayes and NLTK

- Used various NLP techniques to pre-process multiple texts documents and Naive Bayes classifier of Scikit-Learn to classify different types of spam messages
- Framed a Rest-API for user-friendly access and displayed detected spam messages and deployed entire application using Flask and achieved an accuracy of 95%

Time Series Visualization and Forecasting of sales using Seasonal Auto-ARIMA model for sales data analysis

- Visualized and prepared for time-series data using decomposition and stationary process
- Applied and implemented Auto-ARIMA and FB-prophet algorithms to forecast sales

Lane detection for self-driving cars using OpenCV

- Applied Canny Edge Detector, defined Region of Interest, masked yellow and white lines
- Transformed data using Hough transformations and was able to identify Hough lines in video and images

Achievements

- Participated in a couple of Hackathons and accomplished ranks from 300 to 400, where more than 3000 members competed
- Obtained a four-star badge on the Hacker Ranker website for Python programming for completing challenging Python modules
- Presented a journal paper on composite materials at the national conference