Pavan Sai Prasanth Sabnaveesu
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Professional Summary

- 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 back-end code.
- Adept in machine learning algorithms such as all regression models, SVN, random forest, and XGBoost to predict classification and regressor
- Good knowledge and experience with AI architectures such as CNN, Mask R CNN, YOLOv7, YOLOv8, RNN, LSTM, GAN, and GRU for classification, object recognition, and object segmentation
- Experienced in NLP projects such as data mining, machine translation, sentiment analysis, and chatbot

Education

Texas A&M University Kingsville
Master's in computer science **January 2023- Present**

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, Visual and R-studios
Database	:	SQL, SQlite3, MongoDB, and PostgreSQL
Data Visualization	:	Matplotlib, Seaborn, Plotly, and ggplot3
Machine Learning	:	NumPy, Pandas, and Scikit-learn
Deep Learning & NLP	:	TensorFlow, Keras, Pytorch, Open CV, NLTK, Gensim, TextBlob, and Spacy

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 for completing challenges
- Presented a paper on composite materials at the national conference

Conference Paper (About to publish)

Detection and segmentation of wind turbine blades faults using Mask R-CNN, YOLOv7, And YOLOv8 with different Intersection of Unions

Graduate Research Assistant at Texas A&M **February 2023- Present**

- Applied convolution neural network from scratch without using predefined frameworks
- Understood different architectures and presented a couple of literature reviews
- Implemented detection and segmentation for wind turbines blade using Mask R-CNN and YOLOv7 algorithms
- Researched wind turbine blade detection and segmentation using YOLOv8 with varying IoU thresholds

Professional Experience March 2022 – Nov 2022

NEXT ROW Private Limited (Software Developer)

- Designed data pipelines to source data from disparate data sources and rest API framework using python to enable amazon web service cloud services
- 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

Projects:

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

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