Saikrishna Pulipati

Associate Data Scientist

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Professional Summary

- Having **5+ years** of total experience, with **2.8 years** of relevant experience in **Data Science**, **Artificial Intelligence, Machine Learning, Deep Learning, NLP,** and **Data Visualization**
- Experienced in Python to manipulate data for data loading and extraction and worked with python libraries like **NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Keras, NLTK** for data analysis
- Worked on **Data cleaning**, **Data exploration, Data Preparation, Feature Engineering** activities
- Worked on data science relevant technologies like **Jupyter** and **PyCharm**
- Worked with relational databases such as **SQL Server**
- Good Team player with good communication and interpersonal skills
- Self-motivated, inventive, ready to take initiatives for new upcoming tasks
- Able to pick up new technologies within a short stint and adapt to the rapid change in the environment

Technical Skills

- **Proficient in:**
  Packages/Libraries: NumPy, Pandas, NLTK, Matplotlib, Seaborn, TensorFlow, Keras
  Machine Learning: Linear/Logistic Regression, Decision Tree, Random Forest, Clustering
  Deep Learning: Convolutional Neural Network, Recurrent Neural Network
  NLP: Regular Expression, Word Embedding, Text Summarization, Sentiment Analysis
  Programming Languages: Python

- **Familiar with:**
  Flask Framework, SQL Server, Tableau

Professional Experience

- Associate Data Scientist   May '19 – Till Date
  BSIT Software Services Pvt Ltd   Hyderabad

- Assistant Professor   Apr '15 - Sep'17
  Vignan Institute of Technology and Science   Hyderabad

Work Experience

Project #1: Health Care Analytics
- Role: Associate Data Scientist
- Platform: Python, ML, NumPy, Pandas, Scikit-Learn, Seaborn, Decision Tree
- Team Size: 5

Roles and Responsibilities

- Worked on Data Cleaning, Data Mining, Data Blending, Data Preparation, and Feature Engineering process
- Analyze source data and data flows, working with structured and unstructured data
- Performed data imputation using Scikit-learn package in Python
- Performed data processing using Python libraries like NumPy and Pandas
- Used Python to visualize the data and implemented machine learning algorithms
- Design and develop analytics, machine learning models, and visualizations that drive performance and provide insights, from prototyping to production deployment and product recommendation
- Evaluated models using Cross-Validation, F1 score, ROC curves

Project #2: Sentiment analysis for Promotional campaigns
- Role: Associate Data Scientist
- Platform: Python, ML, Bag of words, TF-IDF, Statistical Methodology: Natural language processing, Naïve Bayes, Text mining
- Team Size: 4

Roles and Responsibilities

- Worked with Objectives like Exploratory Data Analysis

- Stemming, stop word removal, Tokenization, and Lemmatization are performed in the phase of text pre-processing

- Training and making predictions using a classification model & Model evaluation

- Data cleaning is done by removing Hashtags, Html tags, and special characters

- WordNet Lemmatize technique is used for Lemmatize

- Bag of words and TF-IDF techniques are applied

- Identified the sentiment of a promotional campaign by using the Naïve Bayes algorithm

- Worked on the Training Models & Model Selection & Tuning

- Created dashboards, associated with sentiment analysis and automated the reports

Data Science Personal Projects

- **Project #1: Detecting COVID-19 in X-ray images and CT scan images with Transfer Learning**

Problem Statement: COVID-19 attacks the epithelial cells that line our respiratory tract, we can use X-rays and CT scans to analyze the health of a patient's lung
Tech Stack: Python, CNN, Keras, Transfer Learning, Google Colab

- **Project #2: Amazon Product reviews with Sentiment Analysis with Machine Learning**
Problem Statement: The goal is to develop a model to predict user rating, the usefulness of review and recommend most similar items to users based on collaborative filtering
Tech Stack: Python, NLTK

Certificates

- PG Certification in Data Science and AI   Aug '19
     Edvancer Eduventure - Data Science   Hyderabad

- Natural Language Processing with Python   Aug '19
     Udemy   Online

Education

- Master of Technology, CSE   -   78.04%   Nov '12 - Nov'14
     Vignan Institute of Technology and Science   Hyderabad

- Bachelor of Technology, CSE   -   72.09%   Aug '07 - Jun '11
     Swami Ramananda Tirtha Institute of Science and Technology   Nalgonda