ANKUR GUPTA

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OBJECTIVE

Looking for Results-oriented and challenging career assignments in Data Science/ NLP to translate my passion & experience into effective and outstanding solutions, that could help organizations make informed decisions and gain an edge in the industry.

WORK-EXPERIENCE

ZIAFA TECHNOLOGIES, Bangalore   Aug 2019-Present

Role: Data Scientist

❖ Extracting data from the provided set of documents using NLP techniques, identifying patterns, analyzing documents, mining data, Implementing certain codes for extraction.

❖ Creating and utilizing new algorithms to recognize the required data points from structured and unstructured documents

❖ Perform process analysis to avoid over-fitting and under-fitting of data models.

❖ Assisting management in project process evaluation and performing bottleneck evaluation.

❖ Interpreting data, analyzing results using Statistical Techniques, Machine Learning, Pandas, Num-Py

❖ Developing and implementing data analysis, data collection systems and other strategies that optimize statistical efficiency and quality using Python .

❖ Data analysis and show graphical representation of data by using Python and Matplotlib Work with management to interpret data sets to assist with key business decisions.

❖ Recognize and define problems, understand business and system processes, collect data, establish facts, and draw valid conclusions.

MGNREGA, Balrampur (Chhattisgarh)   April2015-Nov2016

Role : Technical Coordinator

❖ Lead the technical team of 48 technical assistants at the district level.
❖ Worked in GIS system (Q GIS) for mapping of the village level resources .
❖ Tagging of village-level resources for digital access of around 124 villages.
❖ Customized OPEN DATA KIT app for better use for the technical assistants.
❖ Conducted training programs for the technical team.

PROJECTS

An Advanced Document Understanding System using Machine Learning:

❖ Developed Machine Learning based software system to develop text-classification for custom labels on sections (paragraph, title, etc) of the document:

❖ Machine Learning model using Traditional Machine Learning Algorithms viz. tree-based model, boosting and bagging.

❖ Developed model using the LSTM model for text-classification.

❖ The F1-score of 0.84 is achieved on the validation set.

❖ Developed and Deployed the Software pipeline for training the model and predicting using trained models

❖ Worked on the Software Engineering aspect of the system to ensure High Coding Standard.

❖ Writing Code for generic & utility function.

Social Media Spam Detection using Transformer Model:

❖ Frameworks used -**BERT**, **PyTorch, Pandas, Scikit-learn**

❖ Studied various algorithms for textual data like **N-gram, RNN, LSTM**.

❖ Pre-processed textual data, cleaned noisy data using Pandas framework and custom codes.

❖ Implemented bidirectional encoding representation (BERT) model in PyTorch.

❖ Evaluated results with Scikit-learn library.

❖ Scored F1 score 0.91

TECHNICAL SKILLS

❖ **Programming Languages:** *Python(Advanced),* *C/C++,* MATLAB

❖ **Natural Language Processing Models:** Word2Vec*,RNN,LSTM,Attention Mechanism, BERT*

❖ **Natural Language Processing (NLP) Libraries**: NLTK, Gensim.

❖ **Machine Learning**: K-Means Clustering, Association rule mining, ***Decision tree, Random Forest, Naïve Bayes*** *Classifier*, Linear Regression, Logistic Regression, SVM, AdaBoost, Bagging and Boosting Techniques.

❖ **Data Pre-processing and Machine Learning Libraries:** Scikit-learn, NumPy and Pandas, Matplotlib,Seaborn

❖ **Deep Learning Frameworks***: PyTorch and TensorFlow*.

❖ **Data Structures and Algorithms:** Linked List,quick sort ,pointers,Dynamic programming, time and space Complexity

❖ **Web Technologies:** *MySQL, Linux, Django* ,HTML,CSS

EDUCATION

School of Information Technology, RGPV,BHOPAL   **2017-2019**
M. Tech. in **Computer Tech. & App.(CS**), CGPA- **7.54/10**

Bansal Institute of Science and Technology, RGPV, BHOPAL   **2010-2014**
B.E. in **Civil Engineering,** CGPA- **7.39/10**

Jawahar Navodaya Vidyalaya, Surguja, Chhattisgarh   **2009**
Standard -12th,**CBSE**, Percentage- **70%**

Jawahar Navodaya Vidyalaya, Surguja, Chhattisgarh   **2007**
Standard -10th, **CBSE**, Percentage- **82%**

STRENGTHS

- ❖ Research work in Machine Learning.
- ❖ Ability to learn quickly new technologies .
- ❖ Analytical skills & problem Solving skills.
- ❖ Good communication skills .
- ❖ Amiable nature.
- ❖ Effective learning.
- ❖ Being creative and innovative .
- ❖ Good Decision Making capacity .