Ritesh B. Vaghasiya

NLP Engineer

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PROFILE SUMMARY

Experienced NLP Engineer with a decade of teaching, specializing in BERT, Hugging Face, NLTK, and SpaCy. Proven in deploying advanced solutions for sentiment analysis and classification. Expertise includes linguistic processing, entity recognition, and sequence-to-sequence models. Recognized for innovative teaching, simplifying complex NLP concepts. Eager to contribute extensive knowledge to dynamic projects, merging practical expertise with a passion for advancing natural language understanding. Seeking a role to drive innovation and mentor the next generation in NLP.

PERSONAL DETAILS

- ✓ Sex: Male
- ✓ Date of Birth : 11/03/1985
- ✓ Marital Status: Married

TECHNICAL SKILLS

- ✓ Python
- ✓ Natural Language Processing (NLP)
- ✓ Tensorflow
- ✓ Keras
- ✓ Machine Learning
- ✓ Data Science
- ✓ SQL
- ✓ Power BI

EDUCATION

- **Master of Engineering (Electronics & Communication)**
  Gujarat University, Ahmedabad (June-2010)
- **Certification in Data Science**
  National Programme on Technology Enhanced Learning (NPTEL) (August -23)

PROFESSIONAL EXPERIENCE

1. Assistant Professor & Head Of Departments
Dr. Subhash Technical Campus, Junagadh (09/2011 to Continue)

- Recognized for leading innovative curriculum development and earning praise for effective teaching methods.
- Led various NLP research projects & practical collaborations with industry.
- Proficient in administrative duties, implementing strategies to enhance departmental efficiency.
- Skilled in overseeing interdisciplinary NLP projects, ensuring alignment with industry standards.
- Updates NLP course content to reflect current trends, emphasizing hands-on projects for practical skills.
- Devoted to mentorship, fostering a culture of professional and academic growth.
- Committed to advancing NLP research and education, aiming to elevate the institution's reputation in NLP excellence.

2. Assistant Professor, Noble Group Of Institutes, Junagadh (08/2010 To 08/2011)

- I have Taught various subjects like SQL, Digital Electronics, Digital Signal Processing.

INTERNSHIPS

1. Internship on Data Science from Internshala Training

The training consisted of Introducción to Data Science, Statistics and Python for Data Science, Predictive Modelling Machine Learning, Deep learning, Natural Language processing and the Final Project.

2. Data Visualization With Power BI from Great Learning academie

The training consisted advanced level concepts of Visual Sync using different chart Filters, Bookmarks, Modelling, DAX Functions, Power BI Cloud, Excel & RLS etc.

SHORT TERM TRAINING PROGRAMME (STTP)

- Machine Learning & Deep Learning training Organized by NITTTR, Kolkata.
- Data Science training Organized by NITTTR Kolkata.

SKILLS

- ✓ Leadership
- ✓ Critical Thinking
- ✓ Problems solving
- ✓ Time Managment

LANGUAGES

- ✓ English
- ✓ Hindi
- ✓ Gujarati

INTERESTS

- ✓ Playing Cricket,
- ✓ Reading,
- ✓ Cycling

REFERENCES

1. Dr.Jaimin Bhalani
   Parul University, Baroda
   Mobile Number: +91 94263 52396
   Email: jaimin188@gmail.com

2. Dr . Vimal Parmar
   Dr.Subhash University, Junagadh
   Mobile Number: +91 9825899713
   Email: vimal.parmar@dsuni.ac.in

MAJOR PROJECTS

1. Crafting a Cutting-Edge NLP-Driven Resume Screening Tool with Python Expertise

- Implemented algorithms to extract, pre-process, and analyze textual information from resumes, enabling efficient candidate screening based on predefined criteria.
- Integrated machine learning models to enhance the app's ability to evaluate and rank candidates based on predefined criteria.
- Trained the model on a diverse dataset to improve accuracy and reduce bias in the screening process.
- The project leverages Python programming language along with NLP libraries such as NLTK, spaCy, and scikit-learn.
- These libraries provide essential tools and algorithms for text processing, tokenization, part-of-speech tagging, and word embedding.
- Committed to continuous improvement, the project is designed for ongoing enhancements and updates, reflecting the dynamic nature of talent acquisition processes.
- The NLP-Powered Résumé Screening Application has significantly expedited the talent acquisition process, improving efficiency, and ensuring a more targeted and successful recruitment strategy.

2. Python-Based NLP-Driven Keyboard Auto-Suggestion App

- The project leverages Python programming language along with popular NLP libraries such as NLTK (Natural Language Toolkit), spaCy, and scikit-learn.
- Implement data preprocessing steps, including tokenization, lemmatization, and handling of special characters
- These libraries provide essential tools and algorithms for text processing, tokenization, part-of-speech tagging, and word embedding.
- Additionally, the project incorporates advanced techniques like language modelling, n-gram modelling, and sequence prediction to generate accurate and contextually relevant suggestions
- Significantly increased typing efficiency by offering accurate and context-aware word suggestions, minimizing keystrokes.

3. Sentiment Analysis for USA Election Tweets Using Natural language procession (NLP) Python Project

- Collected a large dataset of tweets containing election-related keywords using Twitter API.
- Pre-processed the data by removing noise, including hashtags, URLs, and user mentions.
- Performed tokenization, stemming, and stop word elimination to further clean the text.
- Utilized sentiment analysis algorithms to assign sentiment scores to each tweet, classifying them into positive, negative, or neutral categories.
- Used Machine Learning models such as Naive Bayes and Support Vector Machines for sentiment classification.
- Employed feature extraction techniques like TF-IDF and Bag-of-Words to transform the textual data into numerical features.
- Evaluated the model's performance using precision, recall, and F1-score metrics.