# VISHNU VARDHAN GOSU

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## PROFILE SUMMARY

- Adept at building and validating predictive models and presenting data insights through visualizations. Ready to apply technical skills and analytical thinking to contribute to impactful data science projects and can also build interactive front-end for the models.
- Done Projects on clustering, classification, Object Detection, predictive modeling, recommendations, sentiment analysis.
- Interest in fundamental research in areas of data science and analytics. Done projects and gained knowledge in numerous varieties of data (text, numerical, images) from multiple domains: transport, financial and retail.

## SKILLS

- Machine Learning
- Deep Learning
- Generative AI
- Artificial Intelligence
- Computer Vision
- Data Science
- NLP
- Data Analysis

## TECHNOLOGIES

**Python, Java**
Programing Language

**Sk-Learn**
ML Library

**Tensorflow, Keras**
DL Library

**NLTK, Spacy**
NLP Library

**Matplotlib, Seaborn**
Visulization

**OpenCV, Sk-Image**
Computer Vision Library

**PyTorch**
Gen AI Library

**Pytessoret**
Programing Language

## CERTIFICATION

**Problem Solving of Java**
Hacker Ranker
**Fundamentals of Data**
Google (Coursera)

## EDUCATION

**B.E (Computer Science & Engineering)**
**Muthayammal Engineering College** - Rasipuram, Anna University — Aug,20 – Mar,24
**Intermediate (MPC)**
**Vizag Defense Academy** - Vijayawada — Aug,17 – Jun,19
**10th Class**
**Sri Chaitanya School** - Ongole — Aug,16 – Jun,17

## PROJECTS

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| **Project Details** | Next Word Prediction using LSTM |
| **Project Description** | • Built an accurate and efficient next-word prediction systems, because traditional models struggle with creating lengthy and meaningful text<br>• Addressing the goal of train Long Short-Term Memory (LSTM) model with large data set like books and internet blogs to enhance next-word prediction in text sequences. |
| **Languages/Technologies/Tools** | Python, TensorFlow, Keras, LSTM, Tokenizer, Softmax, Adam optimizer, Categorical Crossentropy |
| **Responsibility** | • Tokenized the text into individual words or subwords and the LSTM model with activation function softmax to the output layer because its functionality is for miulticlass.<br>• Executed Adam optimizer with minute learning rate and with epochs for good accuracy.<br>• Auto-complete: Suggesting the next word in a text editor or search bar, Chatbots: Generating human-like conversations are mostly use d places by this models. |

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| **Project Details** | Large Language Model (LLm) |
| **Project Description** | • Needed accurate and timely answers to a wide range of questions<br>• Information Retrieval, the LLM can quickly access and provide. |
| **Languages/Technologies/Tools** | API key, Python |
| **Responsibility** | • Implemented a Large Language Model (LLM) as a virtual service agent for questions.<br>• Usage - Improved Efficiency: The LLM can handle multiple inquiries simultaneously, reducing wait times and improving customer satisfaction.<br>• Personalized Service: The LLM can learn from customer interactions and tailor its responses to individual needs.<br>• Language Translation: The LLM can translate customer inquiries and responses into different languages. |

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| **Project Details** | Text Summerization using Specy |
| **Project Description** | • Extracted summary from large data like research reports and documents that can be analyzed.<br>• Improves efficiency by identifying the main topics discussed in the complex documents and pick key information from each document or report. |
| **Languages/Technologies/Tools** | Python, Spacy, Corpus, Tokenization, Stopwords, Word frequency, Word Token Score |
| **Responsibility** | • Identified tokens and removed stop words from the tokens using spacy (unlike nltk, specy is easy call able we can perform same task using nltk too.)<br>• Got most frequent tokens and built a sentence which led to a summary.<br>• Useful for Customer feedback analysis: Analyze customer reviews to identify common themes and trends, Meetings Analysis: Analyse Key Ideas in a meeting News aggregation: Create concise summaries of news articles to stay informed. |

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| **Project Details** | Medical data cleaning (EDA) |
| **Project Description** | • Feature Engineering is the first & main step for data Scientist.<br>• Found the correlation between the attributes, applied univariate and bivariate analysis. |
| **Languages/Technologies/Tools** | Python, Numpy, Pandas, Seaborn, Corr, Heatmap, Matplotlib, Mode, Nan, Select K-Best |
| **Responsibility** | • Found missing data using info function fill it using mode function.<br>• Got Dependent variable relevant features out using corr function or Select K- best.<br>• Visualized graphs to find outlier, drop it if it is irrelevant to the data set.<br>• Exploratory Data Analysis is many steps for further prosses if hadn't performed correctly it led to many problems like Multicollinearity and accuracy problems. |