Rachitha Pittala

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WORK EXPERIENCE

Duquesne University, Pennsylvania, USA- *Graduate Research Assistant* Aug 2019 -April 2021

- Worked with large structured and unstructured datasets.
- Performed data cleaning, transformation, and validation of data.
- Implemented visualization and statistics techniques for checking the data normality using Matplotlib and Plotly libraries.
- Built a seq2seq model which generates headlines for news articles in Hindi language using RNNs.
- Implemented sentiment analysis using different n-gram models and compared the performance by using NLP tools. My observation was that bigrams and trigrams are more efficient than one gram model.
- Worked on classification of images into 8 different categories on animals' using CNNs dataset with fewer features making it lightweight and efficient.
- Contributed to the research work in the area of Lightweight Machine Learning.

Technologies used: Python, TensorFlow, Keras, Pandas, NumPy, Matplotlib, SciPy, Scikit-Learn, NLTK, RNNs, CNNs, machine learning algorithms, Deep learning, Google Colab.

iSmile Technologies, Illinois, USA- *Software Intern* July 2020 - Oct 2020

- Involved in software development lifecycle activities of planning, feasibility analysis, design and implementation.
- Designed and developed a virtual agent for helping students prepare for exams.
- Integrated the bot with mobile application and deployed it on Google Cloud Platform.
- Coordinated with stakeholders on project progress.

Technologies used: Python, Flask, MongoDB, Google Dialogflow, GCP, Microsoft Azure.

VN Solutions, Hyderabad, India- *Data Science Intern* March 2018 - Aug 2018

- Designed and developed recommendation system for recommending games.
- Implemented feature engineering for extracting features to build simpler models.
- Performed ad-hoc analysis for presenting results in a clear manner.
- Gathered new requirements and solutions for continuous improvement of the models.
- Created project specification documents and designed, evaluated, enhanced, tested, troubleshooted and maintained application.

Technologies used: Python, Pandas, SQL, Matplotlib, Clustering algorithms, JIRA, GitHub, Jupyter Notebook.

EDUCATION

Duquesne University, Pittsburgh May 2021
Master of Science in Computer Science *GPA-3.77*
Jawaharlal Nehru Technological University, India May 2019
Bachelor of Technology in Computer Science and Engineering *GPA-3.7*

TECHNICAL SKILLS

Programming Languages: Java, Python, C
Databases: SQL, SQLite, MongoDB
Web Technologies: HTML, CSS, JavaScript, Flask
Libraries/Frameworks: TensorFlow, Keras, Pandas, Matplotlib, SciPy, NumPy, Scikit-Learn, NLTK, Beautiful Soup
Tools: Jenkins, JIRA
Version Control: GitHub, Bitbucket
IDE: IntelliJ, Eclipse, Jupyter Notebook, Google Colab
Operation Systems: Windows, Linux, Unix

CERTIFICATIONS

- ORACLE Database Programming with SQL.
- ORACLE Database Design.
- AWS Certified Cloud Practitioner.