

# DEEKSHITH VENEPALLY

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## Skills

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**Languages:** Python, Java, C# R, SQL, HTML, CSS, JavaScript, TypeScript

**Frameworks & Libraries:** NumPy, Pandas, TensorFlow, Pytorch, Keras, scikit-learn, Apache Airflow, PowerBI, Angular, NodeJS, ExpressJS

**Tools:** MySQL, Git, Azure(Basics), Visual Studio, Spyder, Postman, Github, UiPath, Salesforce, MongoDB

**Other Skills:** Data Structures, Database Management, Machine Learning, Predictive Modelling, Applied Statistics.

## Experience

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### Junior Full Stack Developer

Aug 2021 to Jan 2023

#### Cognizant Technology Solutions.

- Headed the process and conducted a thorough work on a chatbot solution which was supposed to reduce end-user problems in a Java application (Comcast Java app).
- By making use of NLTK, lemmatization, and scikit-learn packages we were able to build a chatbot that had all the different features to answer the different queries that users would have.
- Formulated a question bank which catered to the requirements and encompassed all the scenarios that could transpire within the application.
- Succeeding the deployment, there was a noticeable drop in the number of reported problems by up to 60% and a marked augmentation of overall customer experience by up to 40%.
- Achieved an accuracy rate of 72% for the chatbot model which was considered very satisfactory for the effectiveness and performance of the user support processes.

### Full Stack Developer Intern

Jan 2021 to Jun 2021

#### Cognizant Technology Solutions

- Acquired training in Full Stack Development within 3-months, worked closely with 2 other trainees on development of an E-commerce website incorporating Angular and NodeJS (MEAN stack) within 1-week.
- Improved the user experience by creating a responsive and intuitive Angular front end, thus the performance was advanced through implementation of a robust REST API.
- Successfully raised API productivity by 30%, utilizing the capabilities of Node.js and MongoDB.

## Projects

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### Advanced Image Caption Generation using Attention Mechanism

- Developed an image captioning system that leverages the combination of computer vision and language processing along with improvements in the encoder-decoder structure involving the CNNs and LSTM networks.
- I developed an attention mechanism that allows for greater accuracy and significance of captions as shown by the high BLEU score (50-55) that was constantly recorded during the process of evaluation.

### Predicting RCS SIZE of Space Debris

- Demonstrated my knowledge of machine learning by delivering a project using multiple ML algorithms and achieved high accuracy scores ranging from 90% to 94% in predicting space debris Radar Cross Section sizes (RCS), reflecting advanced analytical and modeling methodologies.

### Phishing URL Detection using Python and ML

- Constructed a decision tree model that can iterate through the criteria and recognize signs of fake URLs.
- Ensured the model's ability to distinguish between fake and real URLs by getting a 96% accuracy score.

# Certifications

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- PwC Switzerland Power BI Completion Certificate
- AI Skills Challenge: Azure Machine Learning

# Education

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<b>Masters in Data Science</b> Kent State University GPA: 3.90/4	Jan 2023 - May 2024
<b>B.E in Electronics &amp; Computer Engineering</b> Vellore Institute of Technology Chennai GPA: 8.2/10	Aug 2017 - Jul 2021