

# Naga Venkatesh Gavini

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## EDUCATION

<b>Northeastern University</b> <i>Master's degree in Computer Software Engineering</i>	<b>Sept 2022 – Expected Apr 2024</b> <i>Boston, MA</i>
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<b>Acharya Nagarjuna University</b> <i>Bachelor's degree in Information Technology</i>	<b>Aug 2013 – Apr 2017</b> <i>Andhra Pradesh, India</i>
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## WORK EXPERIENCE

<b>Senior Software Engineer, Infrd, Bangalore, India</b>	<b>Oct 2021 – Aug 2022</b>
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- Designed and developed core product ML feedback loop to train the ML models without manual intervention.
- Actively participated in adding the new features and enhancements for the product while assisting the junior team members and the testing teams.
- Delivered the features on time while maintaining the quality and scalability of the applications.

<b>Software Engineer, Infrd, Bangalore, India</b>	<b>Dec 2019 – Oct 2021</b>
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- Developed POC projects to extract meaningful insights from various version of documents with OpenCV and Image processing tools in python.
- Developed machine learning pipelines from scratch for model types such as Entity Extraction, Table Extraction, and document classification.
- Wrote automation scripts and configured them to run frequently on a daily basis.

<b>Associate Software Engineer , Deep Compute, Bangalore, India</b>	<b>Oct 2017 – Dec 2019</b>
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- Worked on creating and constructing a system to employ machine learning methods to anticipate the proximity or neighborhood of a user input token.
- Recreated a sensitive DB cluster from scratch to improve the search performances, availability and traceability.
- Built data generation pipelines using standard ML techniques to generate better accuracy models for the model.
- Rebuilt the old architecture of the inference engine to reduce the API response time 300 milliseconds, employing highly optimized python modules such as Numpy and Numba to do so.

## SKILLS & INTERESTS

- **Programming & Frameworks:** Python, Flask, Django, Data Structures, GitHub  
**Data Science & Analysis:** Feature Engineering, Data Analysis, Machine learning  
**Database knowledge:** SQL, MongoDB, Redis, Elasticsearch  
**Operating Systems & Tools:** Linux, Windows, Jupyter Notebook, Visual Studio, PyCharm
- **Interests:** Sports enthusiast, a fan of fitness

## PROJECTS:

- **Nferx:** Developed new features, REST APIs, and automation scripts for the Nferx AI-based biomedical web application which helps scientists in synthesizing the world's biomedical knowledge.
- **ML Feedback Loop:** Designed and developed Feedback loop ML solution which allows automating the model training process with minimal or zero manual intervention.
- **Data Visualization Desktop Application:** Implemented desktop application for people who work with large amounts of data. The tool can assist users in better understanding data trends and patterns. [Demo](#)
- **Diabetes prediction with Machine Learning Approach:** Wrote a comprehensive tutorial for building machine learning models, including strategies for data visualization and model interpretability. [Medium article link](#)