

Bharath Raj Pragada

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EDUCATION

Northeastern University

Boston, MA

Candidate for Master of Science in Data Analytics Engineering

Expected May 2025

Relevant Coursework: Computation and Visualization for Analytics, Foundations for Data Analytics Engineering, Data Mining in Engineering, Statistical Learning for Engineering

SASTRA University

Thanjavur, India

Bachelor of Technology - Information Technology (Honors) GPA: 3.5/4.0

Jul 2022

Relevant Coursework: Big Data Analytics, Data Warehousing and Data Mining, Database Management System, Statistical Foundations for Computer Science, Machine Learning Techniques, Design and Analysis of Algorithms

SKILLS

Languages: Python(Pandas, NumPy, Matplotlib, Tensorflow, Keras API), SQL, R, C, C++, Java, Scala, HTML, CSS

Frameworks: FAST API, Flask, React JS, Java Script (amCharts), JUnit, Pytest, Spring Boot, Django, Spark, Scala

Developer Tools & Databases: Git, Swagger, VS Code, Heroku, PyCharm, Figma, MongoDB, MySQL Workbench

Software Tools: Tableau, Flourish, Datawrapper, Microsoft Power BI, Figma, Postman, MS Office(Excel, Powerpoint)

EXPERIENCE

Northeastern University

Boston, MA

Research Assistant

Sep 2023 – Present

- Collaborating on material science research under Professor **Dr. Peter Schindler**, to implement **OPTIMADE API** standards
- Executed data loading, cleaning, structuring, and maintenance tasks using **MongoDB**, to ensure secure data storage
- Creating an optimized API utilizing the **FastAPI** framework in **Python**, enhancing data retrieval and constraints handling

Alfahive

Bangalore, Karnataka

Product Engineer

Aug 2022 – Jul 2023

- Developed master data and APIs required for core risk quantification engine using **Python** in the **Flask** framework
- Conducted data aggregations using **MongoDB** into the data pipeline to enhance efficiency and drive insightful analytics
- Improved test performance statistics by **50%** using **Testsigma** and verified the functionality of pipelines for deployments

Alfahive

Bangalore, Karnataka

Intern - Product Engineering - [Certificate](#)

Feb 2022 – Jul 2022

- Designed Recruitment Portal using **Spring Boot** and **React JS**, enabling job-seekers to seamlessly navigate and apply
- Delivered a cutting-edge product with dashboards for data analytics using **amCharts** and Visualization with a **team of 3**
- Enhanced user journey, resulting in a **50%** increase in customer value and a **35%** rise in **JUnit** test coverage

Internship Studio

Pune, Maharastra

Intern - Artificial Intelligence(AI) - [Certificate](#)

Jul 2021 – Aug 2021

- Implemented a language translation model using **Seq2Seq** architecture, for converting German to English and vice versa
- Utilized **Keras Tokenizer** to vectorize text data, facilitating effective sequence processing for machine translation
- Streamlined model using **LSTM** layers, trained for **30** epochs with RMS Prop Optimizer, achieving optimal performance

ACADEMIC PROJECTS

Global Exploration of Natural Disasters: Causes, Adverse Effects, and Mitigation Plans - [Google Site](#) Sep 2023 – Nov 2023

- Spearheaded a collaborative project to visualize global natural disasters to communicate complex information
- Applied **Datawrapper** and **Flourish**, to create dynamic and engaging visuals, for effective storytelling via **Google Site**

Crime Data Analysis and Visualization - [GitHub](#)

Sep 2023 – Nov 2023

- Conducted comprehensive exploratory data analysis (**EDA**) and used **Prophet** time series to predict future crime patterns
- Reported on the effects of major events during the [dataset](#) period, providing critical insights into shifts in crime rates

Deep Learning Model for diagnosing the chest X-ray - [GitHub](#)

Sep 2021 – Dec 2021

- Trained a deep learning model and designed a **GUI** for showcasing the predicted disease in chest X-ray using **Python**
- Attained accuracy of **73%** with **DenseNet** (Densely Connected Convolutional Networks) and selected to categorize data

Classification and Segmentation of Brain Tumor - [GitHub](#)

Aug 2021 – Dec 2021

- Implemented a Layered architecture of **ResNet** model to classify the type of brain tumor, achieving an accuracy of **99.2%**
- Constructed a **U-net** segmentation model, which locates the tumor through MRI images, allowing quick diagnosis