

Ravi Tarun Prasad Nimmalapudi

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LinkedIn — GitHub — Portfolio

EDUCATION

Master's in Computer Science, Specialization in Data Science, Seattle, WA
Seattle University

03/2023 – 03/2025
GPA: 3.63/4.00

Bachelor of Technology in Computer Science, Visakhapatnam, India
Gitam University

04/2017 – 04/2021
CGPA: 8.33/10

SKILLS

- **Languages:** Python, C
- **Data:** Pandas, NumPy, SQL, MySQL, PostgreSQL, SQL Alchemy
- **Tools:** Git, Docker, Tableau, MF OO, MF RPA, MF IDOL, Flask, Spark
- **ML/DL:** Scikit-learn, TensorFlow, PyTorch, OpenCV
- **Concepts:** Data Cleaning, Feature Engineering, Model Evaluation, Data Visualization, Data Manipulation, Data Pipelines, CI/CD Automation, Statistics.

EXPERIENCE

Graduate Teaching Assistant

Seattle University

09/2024 - 01/2025
Seattle, WA, USA

- Supported instruction for **CPSC 5700: Computer Graphics**, helping 25+ students understand key topics including **projection, texture mapping, and 3D rendering pipelines**.
- Provided individualized tutoring and hosted weekly office hours, contributing to a **15% increase in average class performance** by end of term.
- Collaborated with **Professor Jules Bloomenthal** to refine course content, track student progress, and enhance overall engagement and course satisfaction.

Technology Consultant

Micro Focus

06/2021 - 12/2022
Bangalore, India

- Designed and implemented end-to-end RPA workflows for **BISL Insurance**, reducing form processing time by **75% (from ~8 to 2 minutes)**, resulting in a **2x increase in daily processing capacity**.
- Worked on **test case design and validation** for key banking use cases at **Westpac Bank**, helping ensure the reliability and quality of automated workflows built using Micro Focus Operations Orchestration.
- Collaborated with technical teams to understand project goals, run client demos, and build solutions that met timeline and performance expectations.
- Contributed to software improvements and proof-of-concept projects aimed at making automation workflows more efficient and easier to maintain.

Machine Learning Intern

Indian Servers

05/2020 - 08/2020
Vijayawada, India

- Developed a **Traffic Sign Recognition system** using machine learning to help autonomous vehicles identify and respond to road signs in real time.
- Collected and preprocessed image datasets and applied **OpenCV** for image processing, and trained models using **Scikit-learn** and **TensorFlow**.
- Gained practical experience in **supervised learning, image classification, data preprocessing, and model evaluation** techniques.

PROJECTS

DVPO StaG

01/2025 – 03/2025

- Built a multilingual, trauma-informed chatbot using **Meta's LLaMA 3.1** and **Retrieval-Augmented Generation (RAG)** to assist domestic abuse survivors in Washington State with DVPO filings.
- Automated survivor interviews via voice interaction, generating structured, legally sound statements with a **25% higher likelihood of acceptance by legal aid volunteers and review teams**.

Customer Segmentation on Retail Data

09/2024 – 11/2024

- **RFM modeling** and **clustering (K-Means)** applied to segment **20,000+ customers**, enabling personalized marketing and retention strategies.
- Delivered actionable business insights through **visual dashboards** (Seaborn, Plotly), improving campaign targeting and customer lifetime value.