

# DIVYA PRASANTH PARAMAN

Bloomington, Indiana. 47404

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## EDUCATION

**Luddy School of Informatics, Computing, and Engineering, Indiana University Bloomington**

Master of Science in Data Science

May 2025

CGPA: 3.95/4

**Kumaraguru College of Technology, Coimbatore, India**

Bachelor of Engineering in Electronics and Communication Engineering

## PROFESSIONAL EXPERIENCE

**Indiana University**

FADS Research Fellow - NLP - Python, PyTorch, TensorFlow, Docker

May 2024 - August 2024

Bloomington, IN

- Leveraged OpenAI's Whisper for speech-to-text analysis, implemented speaker identification using Praat/n-gram models, and performed NLP analysis on vowel sounds via MFCC, resulting in an 80% reduction in manual data annotation; developed microservices to streamline the entire process.

**Bounteous India**

Senior Data Analyst - Python, Tableau, SQL, Hadoop, ETL, Apache Airflow, Supervised Machine Learning Chennai, India

September 2021 - July 2023

- Freed up about 50% of manual labor hours for higher value tasks by developing an AI model that performs data taxonomy within the proof of concept project.
- Scaled the business impact report generation across 1000+ customers by completely automating the process by building end-to-end pipelines and Business Intelligence dashboards achieving a reduction in report development effort by 80%.
- Managed a team of three analytics professionals, successfully driving enhanced process adoption and implementing quality control measures that maintained the escalation rate consistently below 5%.

**Soliton Technologies**

Software Engineer - Core Python, Advanced OOPS/ Data Structures, SDLC, Agile, CI/CD

June 2019 - January 2021

Coimbatore, India

- Engineered a Python framework that resulted in a 2x acceleration in software development for GUI applications. These software enables end users to set up quickly and understand semiconductor devices with ease.
- Built modular code and enabled continuous integration and continuous deployment practices, ensuring efficiency.

**Soliton Technologies**

Software Engineer Intern - Web Development, Angular

July 2018 - May 2019

Coimbatore, India

- Developed SMILE, a web repository that encourages cross-functional team collaboration through sharing of reusable modules.

## TECHNICAL STRENGTHS

**Professional Certifications**

TensorFlow Developer Certificate

**Industry Skills**

Scrum, Agile, Software Development Life Cycle Practices, Git

**AI Frameworks**

LangChain, TensorFlow, PyTorch

**Programming Languages**

Python, SQL, R, C

**Databases**

PostgreSQL, MySQL, Hadoop, Hive

**Visualisation Tools**

Tableau, Power BI, Microsoft Excel, Python(Matplotlib, Seaborn, Plotly)

**Statistical Techniques**

Hypothesis Testing, Association Analysis, Anomaly Detection

## ACADEMIC PROJECTS

**Movies Recommendation System - Graph Neural Networks, PyTorch, TensorFlow, PySpark**

May 2024

- Implemented and trained the state-of-the-art LightGCN model on rook and iM datasets using IU's GPU services to achieve parallelization, achieving 25% Recall@10 and 48% Precision@10.

**House Price Prediction - Python, Pandas, Scikit-learn, Matplotlib, Seaborn, XGBoost**

March 2024

- Developed a model achieving an RMSE of 42K USD and MAE of 15% with proximity to ocean being the number 1 predictor.

**Credit Risk Analysis - Python, Scikit-learn, Seaborn, Matplotlib, XGBoost, RandomForest, SVM** December 2023

- Developed a model addressing class imbalance and achieving test accuracy of 67% and F1 score of 58%.