

Experience

- **PreProd Corp.** Nov 2023 - May 2024
Data Analyst Intern
 - Implemented Kafka messaging queue for real-time data transfer along with pyspark for data streaming from inventory systems, processing 900k rows in 2-second batches of 100k.
 - Engineered a Data and ML pipeline to predict food demand from restaurant data processing 100K data samples and reaching RMSE of 63.
 - Led the development of the frontend interface for the primary MLOps pipeline, streamlining model monitoring and user interaction.

Projects

- **Food Demand Forecasting** [Github](#) Full Stack + ML
(Team Project)
 - An industry-level project development for a food demand forecasting application.
 - Implemented a Kafka-based messaging system streaming over 900K records in batches of 100K using PySpark.
 - Built a scalable Data and ML pipeline to forecast restaurant food demand using 100K+ samples
 - Managed structured and unstructured data across MongoDB and SQLite
 - Tech Stack: Python, PowerBI, DVC, MLFlow, MongoDB, SQLite, Kafka, Pyspark
 - Role: Data Pipelining
- **Fieldly AI** [Link](#) | [Github](#) Frontend + ML
 - Developed a one-stop intelligent web platform to modernize traditional farming by providing predictive insights and agricultural tools.
 - Integrated real-time weather data using OpenWeatherMap API and trained ML models on Kaggle datasets for:
 - Crop prediction using a dataset of 2,200 samples (8 features), achieving 95.45% accuracy.
 - Fertilizer recommendation, reaching 98.73% accuracy.
 - Tech Stack: Flask, HTML, CSS, JavaScript, Scikit-learn, OpenWeatherMap API
- **SafeSpace AI** [Link](#) | [Github](#) Full Stack + ML
 - Built an AI-powered mental health platform that combines real-time conversation with intelligent emotion detection and mood tracking.
 - Integrated Gemini Flash 1.5 model to power a conversational chatbot offering emotional support and safe space interaction.
 - Developed an ML-based message classifier to detect distress in user chat messages with 89.31% accuracy, triggering real-time alerts to admins
 - Implemented a mood journaling system backed by MongoDB, allowing users to track emotional patterns.
 - Tech Stack: ReactJS, NodeJS, MongoDB, Flask, Scikit-Learn, Gemini Flash 1.5 API
 - Role: Data Pipelining

Education

- **VIT Bhopal** Bhopal, India
Bachelor of Technology in Computer Science with specialization in AI-ML; CGPA: 8.45 Sep 2021 - Present

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, Java **Technologies:** MERN, Flask, Scikit-Learn, Tensorflow, Pytorch, Kafka, Pyspark, SQL