

Aniket Deepak Malpure

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EDUCATION

University of Florida, Gainesville, FL
Masters in Applied Data Science

Aug 2024 - May 2026

Pune Institute of Computer Technology, Pune, India

Aug 2019 - Jun 2023

Bachelors in Electronics and Telecommunications, Honors in AI ML | GPA: 8.98 / 10

EXPERIENCE

University of Florida

Sep 2024 – Present

Graduate Student Assistant

- Conducting **Voice Analysis** and **Natural Language Processing (NLP)** at **Twister Lab** to evaluate student's responses during exams, aiming to enhance the accuracy of assessment and feedback systems.

Bajaj Finance Ltd.

Jan 2023 - Jul 2024

Data Engineer

- Enhanced system performance by optimizing **PostgreSQL** scripts, reducing query execution time by **40%** and boosting responsiveness by **30%**, leading to significant operational efficiency.
- Designed and developed **Product on Demand (EMI POD, Document POD, PartnerLending POD)** services to enhance adaptability and integration across various platforms, leading to a **30%** improvement in response times and a **15%** increase in operational efficiency.
- Boosted data integrity by implementing a Machine Learning based **Name Matching Algorithm** using **Jaro Winkler Algorithm**, **Soundex** and **Metaphone**, improving accuracy by **25%** and significantly reducing information discrepancies across datasets.
- Streamlined data processing workflows by using **Azure Pipelines** for efficient data transfer and **Power BI** for advanced data visualization, which enhanced operational efficiency and provided actionable insights through automated and optimized data flows.
- Elevated customer satisfaction by developing a robust **Internal Chat Application** backend using **PostgreSQL**, reducing response time by **150 milliseconds** for faster interactions and an enhanced user experience.
- Earned a **Kudos award** for consistent performance by maintaining detailed documentation using Confluence, facilitating team collaboration and significantly contributing to project success.

Babel Pte. Ltd.

Oct 2021 - Jul 2022

Data Analyst Intern

- Enhanced visibility into user activity by creating and implementing real-time **SQL** queries, reducing query execution time by **120 milliseconds** and improving database performance, leading to more informed decision-making.
- Utilized **Natural Language Processing (NLP)** techniques with **NLTK** to perform Sentiment Analysis on **100k+** consumer interactions, enabling the identification of behavioral patterns and preferences, which informed strategic decisions and enhanced user engagement by **15%**.
- Implemented advanced **Text Processing** and **Tokenization methods** to analyze **1000+** pieces of consumer feedback, resulting in deeper insights into user experiences and driving the optimization of engagement strategies across digital platforms, leading to a **40%** increase in user satisfaction.
- Engineered a **Recommendation System** using content-based and collaborative filtering techniques to deliver personalized article suggestions, improving user engagement by **30%** through tailored content based on individual preferences and reading history.
- Incorporated **Graph Neural Networks (GNNs)** to refine article recommendations, leveraging complex user-item relationships to improve the accuracy of content suggestions and increase user satisfaction.

PROJECTS

Plant Disease Detection

Jul 2022 - May 2023

Final Year Research Project, Pune Institute of Computer Technology

Project Link

- Implemented a **Convolutional Neural Network (CNN)** model for plant disease classification, utilizing **Keras** and **TensorFlow** to achieve **98.164%** accuracy. Performed image preprocessing and optimization, and trained the model over **200 epochs**, visualizing performance with **Matplotlib**.
- Developed and evaluated a **Transfer Learning model** using **Inception V3** and **ResNet152V2**, achieving accuracies of **95.99%** and **96.91%** respectively.
- Utilized pre-trained **ImageNet weights** and fine-tuned top and bottom layers to improve model performance.
- Engineered advanced image analysis techniques**, including meticulous dataset categorization into fresh and diseased cotton leaves and plants.
- Employed **Precision** and **F1-score** metrics to ensure reliable disease classification.

Data Insight Studio

Dec 2020 - Dec 2021

Hira Automation Pvt. Ltd. & Pune Institute of Computer Technology

Report and MOU

- Developed a **Django** web application for real-time project data collection and progress tracking, streamlining project management and collaboration by integrating **Python** and **SQL** technologies.
- Created **interactive visualizations** to analyze project data, enabling informed decision-making and enhancing efficiency and accuracy in departmental processes.

SKILLS

C++, Python, R, SQL, Numpy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, Neural Networks, CNNs, RNNs, LSTM, GRU, Hypothesis Testing, Regression Analysis, ANOVA, Matplotlib, Seaborn, Tableau, Power BI, Hadoop, Spark, PostgreSQL, MySQL, AWS, Azure, NLTK, SpaCy, Docker, Flask, Git, GitHub, Feature Selection, Dimensionality Reduction, Data Cleaning, Data Wrangling, Normalization, Hyperparameter Tuning, Data Analysis, Django, Streamlit, Probability, EDA, PCA, Transformers, Power Query, DAX, Microsoft Excel, Snowflake, ETL Pipelines, MongoDB, Linux, Statistics, MLFlow, Dagshub, BentoML, Encoder Decoder, Attention Mechanism