

## EXPERIENCE

### DISHAAI EdTech Solutions Pvt. Ltd

Bangalore, India

#### Data Analytics Intern

Apr. 2024 - Jun. 2024

- Contributed to extracting actionable insights from student data by performing comprehensive data analysis. Managed missing values, manipulated datasets for better accuracy, and created interactive visual dashboards to visualize key trends and patterns. Delivered these insights through data-driven presentations to stakeholders, enabling informed decision-making and enhancing overall project outcomes.
- Revamp the website's front end.

### Reva University

Bangalore, India

#### Junior Research Fellowship

Sept. 2023 - Mar. 2024

- Collaborated with PhD students and government institutions on agricultural research projects, developing an end-user interface to assist farmers in diagnosing crop diseases.
- Developed an image classification model to identify crop diseases and severity, alongside evaluating various machine learning models for performance.
- Focused extensively on data preprocessing to improve model accuracy and optimize results.

## EDUCATION

### Reva University

Bangalore, India

#### Master of Science in Data Science GPA: 8.93 / 10

Sept. 2022 - Sept. 2024

### VVM's Shree Damodar College of Commerce and Economics

Goa, India

#### Bachelor of Computer Applications GPA: 9.03 / 10

Jun 2019 - Jun. 2022

## PUBLICATIONS

#### 1. Enhancing Integrity of Toll Gates: FastTag Fraud Detection

Prathamesh Pradeep Dessai, Nikhil B, Dr. S. Senthil  
Int. J. Advanced Networking and Applications

#### 2. Gender-Based Suicide Data Analysis

Ashika Devi R, Noorain Fathima, Prathamesh Pradeep Dessai  
ICICTA 2023

## PROJECTS

- 1. End-to-End RAG LLM App** - Developed a Retrieval-Augmented Generation application using Llama Index and OpenAI to index and query multiple PDFs efficiently.
- 2. News AI Agents** - Built AI-powered news agents leveraging Crew AI and Google Gemini Pro LLM models for real-time insights.
- 3. RAG with Open Source LLM Models** - Implemented an RAG framework with open-source LLMs and Groq Inferencing Engine to optimize computational efficiency.
- 4. Advanced RAG Q&A System** - Developed a multi-data-source RAG Q&A application utilizing LangChain for comprehensive knowledge querying.
- 5. Advanced RAG App** - Created an end-to-end RAG solution using AWS Bedrock and LangChain to enhance knowledge retrieval from diverse data sources.
- 6. FAST Tag Fraud Detection** - Built a Machine learning model based Fast tag fraud classifier with the help of algorithms - Logistic Regression, SGD Classifier, SVC, Gradient Boosting Classifier, KNeighbors Classifier based on the synthetic data manually created.
- 7. Brain Tumor Progression: Insights from Stage-based Analysis & Recurrence Pattern** - Developed a machine learning model to predict brain tumor recurrence based on patient demographics, tumor characteristics, and treatment details, aiming to assist in personalized treatment strategies.

## PROGRAMMING SKILLS

**Management Skills • Creativity • Leadership • Languages:** Python, SQL • **Tools:** GitHub, Kaggle, AI Tools, Tableau, Power BI, MS Excel • **APIs and Integrations:** OpenAI APIs, Third-party APIs for data integration • **Inference & Optimization:** Groq Inferencing Engine • **Cloud Platforms:** AWS Bedrock, Google Cloud AI tools • **No-Code Tools:** LangFlow • **Libraries & Frameworks:** LangChain, LlamaIndex, TensorFlow, PyTorch, Sklearn, Stream lit, Flask, Gradio, NumPy, Pandas, Matplotlib, Skimpy, Lazy Predict, Seaborn, Classification, Regression, Time series • **Machine Learning & Deep Learning:** NLP, Transformer-based Models, RAG, Transfer Learning

## ACHIEVEMENTS

**Best All-Round Performance** at BCA (2019-2022) • **Tech - Wizard student of the year** (2021-2022) • **Best Tech performer of the year** (2021-2022) • **1st Rank TY BCA 2022 (91.1%)** • **Highest Scoring marks TY BCA 2022 (911/1000)** • **3rd Rank** at BCA, with FGPA of **9.03** (Sem 1 to Sem 6) • Kaggle Contributor

## IMMERSION PROGRAM MALAYSIA CERTIFICATIONS

Jun. 2023 - Jul. 2023

Employability skills for industry 4.0 • Leadership skills and culture immersion • Cybersecurity: A Holistic approach integrating information security management system • Introduction to artificial intelligence and machine learning • Health & safety - IT Industry Requirements • Workshop Series - Professional Ethics.