NIKITA JOISA

Cork, Ireland | nikitajoisa@gmail.com | +353 899532182 |
https://www.linkedin.com/in/nikita-joisa-57a590220/

EDUCATION

University College Cork| *Msc in Business Analytics*   *Cork, Ireland* | **09/2024-Present**

- Ongoing

Nitte Meenakshi Institute of Technology| *B.E in Information Science*   *Bengaluru, India*| **09/2020-05/2024**

- Cumulative GPA: 7.75/10
- Secretary of the IEEE CS Society NMIT
- Social Media Head of the Entrepreneur's Cell NMIT
- Vice Social Media Head of IEEE CS Society

Chetana PU College| *Physics, Math, Computer*   *Bengaluru India*| **07/2018-08/2020**

- Percentage: 75.66%

Cluny Convent High School   *Bengaluru India*| **07/2005-08/2018**

- Percentage: 87.89%
- Part of the School Choir
- Member of the Scouts & Guides

SKILLS

- **Programming Languages**   *Python, C++, Java, SQL, MongoDB, Power BI, Tableau, Excel.*

- **Web Development**   *HTML, CSS, PHP, JavaScript.*

- **Operating Systems**   *Windows, Linux, MacOS.*

- **Design & Prototyping Tools**   *Figma, Canva.*

- **Accounting principles**   *Attention to Detail, Teamwork & Collaboration, Leadership Skills, Critical Thinking, Data Driven Decision Making, Adaptability to New Technologies, Time Management, Active Listening, Content Writing.*

- **Communication**   *Written and oral communication: English, Kannada, Hindi*

EXPERIENCE

Patodia Infotech Private Limited |*LLM Research Intern.*   *Bengaluru,India*|**03/2023-05/2023**

- Developed and implemented prompt-based training methods for large language models (LLMs), improving model accuracy and reducing inference time, which led to an **increase in user satisfaction scores** during testing.
- Designed and executed manual testing frameworks for LLMs, covering **60+ test scenarios** across different use cases, which led to diagnosing and fixing of critical bugs before deployment, reducing production issues by **30%**.
- Conducted user studies with **50+ participants** to evaluate the effectiveness of LLMs, resulting in a **faster task completion rate** and uncovering **three key areas of improvement, which enhanced the model's usability.**
- Demonstrated **strong technical proficiency** and **problem-solving skills**: Ability to translate theoretical knowledge into practical applications and resolve customer issues effectively highlights your technical expertise and ability to handle challenging situations.
- Fostered to a culture of **transparent communication** and **continuous improvement.**

PROJECTS

1. **Project on Smart Accident Severity Detection System**
   - Designed an integrated LSTM-CNN model with Streamlit for enhanced accident severity prediction, classifying accidents into minor, moderate, or major categories based on factors like weather conditions and road geometry.
   - The project employed real-life data for empirical assessments, aiming to improve urban accident response and contribute to smart road safety systems.

   Skills used: Data Analysis, User Interface Development, Advanced machine learning techniques, Long Short-Term Memory (LSTM), Convolutional Neural Network (CNN) algorithm, Python

2. **Traffic management and optimization in a city**

   - Developed a Bayesian Belief Network (BBN) for real-time traffic management by predicting traffic conditions using historical and real-time data.
   - Optimized traffic management strategies through probabilistic inference and visualized results with heatmaps and other relevant charts.

   Skills Used: Data Analysis, Bayesian Belief Networks (BBNs), Probabilistic Modelling, Advanced Analytics Techniques, Python

3. **Website clickstream analysis**
   - Conducted website clickstream analysis using the Apriori algorithm to discover frequent sequences of user clicks and generate association rules between pages.
   - The project provided insights into user behaviour, optimized conversion rates, and enabled personalized recommendations by identifying popular content and mapping user journeys on the website.

   Skills used: Data Analysis, Association Rule Learning, website analytics, user behaviour analysis, Statistical Analysis, Problem-Solving, Python

4. **Optimizing traffic flow on a road network**
   - Implemented k-means clustering to optimize traffic flow on a road network by grouping similar traffic patterns based on flow data.
   - Applied the Elbow method to determine the optimal number of clusters, and adjusted traffic signals accordingly to enhance flow efficiency and reduce congestion.

   Skills Used: Data Analysis, Clustering Algorithms, Statistical Analysis, Data Visualization, Problem-Solving, Machine Learning Principles, Critical Thinking, Python

CERTIFICATIONS

- **The Joy of Computing using Python** | *NPTEL*
- **Java Programming Fundamentals** | *INFOSYS SPRINGBOARD*
- **Financial Accounting** | *NPTEL*
- **Corporate Analyst Development Program (CADP) Job Simulation** | *JPMORGAN CHASE & CO*

INTERESTS & ACTIVITIES

- Music
- Writing
- Sketching
- Photography
- NGO Initiative Activities

DECLARATION

I hereby declare that the information provided above is true and accurate to the best of my knowledge and belief. I take full responsibility for the accuracy of the particulars stated in this document.