

# Indranil Biswas

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## Data Scientist II

### WORK EXPERIENCE

#### G2.com

Bangalore, IN • Jan 2022 – Jan 2024

##### Data Scientist II

- Built a graph neural network from scratch for the domain of software marketplace. Achieving: – 41% increase in user session duration. – 17% increase in user-product interaction and 9% increase in user reviews, enhancing the effectiveness of the recommendation system.
- Led the development of data-driven solutions. Developed and executed data-driven product development. – Implemented automated moderation using NLP techniques that resulted in a 40% decrease in costs incurred for review moderation. Reduced the review moderation time by 4 folds. – Improved business KPIs, such as conversion rates of 7%, customer satisfaction scores to 81% and customer retention rate to 77%.
- Led a team with projects on transformers, recommendation, and term normalization, doubling the team's bandwidth in the delivery of the project.

#### Byju's

Bangalore, IN • Aug 2021 – Dec 2021

##### Research Engineer

- Implemented an automated solution to math word problem by leveraging Graph Neural Networks & NLP techniques.
- Applied data augmentation through structured paraphrasing to enhance the quality and diversity of the training dataset.
- Fine-tuned LLMs: MathBERT and T5 models on a custom domain corpus, achieving a significant improvement in performance and accuracy.
- Optimized and deployed end-to-end transformer architectures on production AWS servers, resulting in a 30% reduction in response time and 15% improvement in overall system efficiency.

#### Stylumia

Bangalore, IN • Jul 2020 – Jul 2021

##### Data Scientist

- Creation of Fashion Knowledge Graph, using various techniques of NLP—sentence segmentation, sequence tagging, dependency parsing.
- Implemented Vertical Search Engine with NLU and BERT-as-a-service, resulting in a 68% improved search relevance and 0.3 seconds reduction in response time of Elasticsearch index.

#### IIT Bombay

Mumbai, IN • May 2018 – Jul 2018

##### Research Intern

- Contributed to a Peer-Assessment framework inspired by open-edX for Sunbird.org and ekShiksha.org.in.
- Created a web based interactive 3D framework: PIE an low-resource version of three.js. Based on OpenGL
- Upgraded content delivery across all smart classrooms with Apache Cassandra.

### SKILLS

Key Performance Indicator, Machine Learning, Natural Language Processing, Neural Network, Product Development, Project Delivery Method, Recommender System, Search Engine

**Big Data:** Apache Airflow, Cassandra, Elasticsearch, Grafana, Hadoop, HBase, HDFS, Hive, Kafka, Kibana, Logstash, MongoDB, PySpark, Spark

**AI Frameworks:** CUDA, datasets, Gensim, Keras, Kubeflow, Langchain, matplotlib, MLFlow, numpy, OpenCV, pandas, plotly, PyGeometric, Python, PyTorch, Rasa, Scikit-learn, SciPy, spaCy, streamlit, Tensorflow, transformers

### EDUCATION

#### MS in CS (thesis)

The University Of Texas  
Dallas  
GPA: 3.4  
Jan 2024 – Dec 2025

#### B.Tech in CSE

National Institute Of  
Technology  
India  
GPA: 8.21  
May 2016 – Jul 2020

### VOLUNTEERING & LEADERSHIP

#### OpenClimateFix

OpenSource Developer

- Refined OFC Data pipeline codebase, in handling data edge cases over largescale data ingestions.
- graph\_weather, implemented in detection of anomalies over GNN weather models