

Nidhi Rai

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EXPERIENCE

• Data Engineer Intern at Amazon:

Bengaluru, India

Reaper Utility:

May 2024 - June 2024

- Automated query termination for queries exceeding threshold constraints in Redshift clusters.
- Developed utility reduced total query time by **20.06%** by terminating only **2.63%** of queries in the Redshift cluster.
- **Tech Skills:** Workload Management, Amazon Redshift, ETL, SQL, Data warehouse, EXCEL.

Data Insight through NLP for PED:

March 2024 - May 2024

- Built a high-performance dashboard using Amazon QuickSight, incorporating over **2,300** unique dataset-specific questions.
- Optimized natural language query capabilities, achieving **94.5%** accuracy in rapidly answering complex business questions.
- **Tech Skills:** Amazon QuickSight, NLP, LLM, Data visualization, SQL, BI, Real-time processing.

Sandbox Cleanup Utility:

January 2024 - March 2024

- Developed and implemented a table deletion utility, reclaiming **186 TB** of disk space from 17 April to 22 June.
- Projected annual disk space savings of 930 TB, representing an **18.14%** reduction in total storage utilization.
- **Tech Skills:** Data Integration, SQL, Python, EXCEL, DJS, ETL, Data Pipeline, S3 Bucket, Batch Processing.

TECHNICAL SKILLS

Languages:	SQL, C, C++, Python, HTML, CSS, JavaScript.
Tools:	VSCode, Jupyter Notebook, Node.js, Kaggle, Git, Linux.
Technologies:	AWS(Lambdas, EC2, S3 bucket, Datanet, Spark, Athena, CloudWatch, Glue, etc), Node.js .
Key Courses:	Data Structure & Algorithms(DSA), Object-Oriented Programming System(OOPS), Database Management System(DBMS).
Libraries:	Pandas, PyTorch, NumPy, Scikit-learn, Matplotlib and Seaborn.
Soft Skills:	Technical Documentation and Presentation, Debugging, Organizing, Time Management, Problem Solving.

EDUCATION

• Motilal Nehru National Institute of Technology, Allahabad

Prayagraj, India

- Bachelor of Technology, Electronics and Communication Engineering, CPI: 7.2.

2020 - 2024

KEY RESEARCH PROJECTS

• E-commerce Analytics and Predictive Modeling for Olist[\[GitHub\]](#):

Jun'24 - Present

- Exploratory Data Analysis | Time Series Analysis | Natural Language Processing | Kaggle Competition
- Conducted comprehensive exploratory data analysis (EDA) to extract valuable insights from the dataset.
- Implemented predictive models, **reducing** delivery time almost errors by **25%**, resulting in improved customer satisfaction.
- Explored customer behavior through **churn prediction**, providing valuable insights for customer retention strategies.
- Leveraged natural language processing (NLP) to extract sentiment and trends from customer reviews, and guiding product.
- **Tech Stack:** Neural Network, XGBoost, Linear Regression, Pandas, Numpy, and Scikit-learn.

• Sentiment Analysis on Quora[\[GitHub\]](#):

July'23 - Nov'23

- Natural Language Processing | Coursera Project
- Scrapped and parsed the raw text data for **BERT** pre-trained dense neural network with the Transformer architecture.
- Improved **test accuracy** to **95.6%** by fine-tuning the hyperparameters in **Keras** using Adam optimizer.
- **Tech Stack:** Python, TensorFlow, NumPy, scikit-learn, and Pandas.

ACHIEVEMENTS

- Successfully completed the **6 months** Campus to Corporate mentorship program by **HP**. August 2024
- Delivery Excellence Champion: Award given by Amazon India. April 2024
- I have a YouTube channel with **1.2k** subscribers and a podcast with over **130k** listeners. April 2024
- Successfully completed a 12 weeks **Machine Learning** course by Andrew Ng. September 2023
- Ranked **top 5** in Dev-Jam An inter-college software development contest. August 2022
- Under **Top 3** Best Freshers Team, in Code-Night MNNIT. December 2021

POSITIONS OF RESPONSIBILITY

- **Amazon Global Month of Volunteering** Amazon August 2024
 - Volunteered with 15 interns to support Amazon's Global Month of Volunteering, aiding communities in need. May 2024
- **Student Mentor Programme - SMP Mentor** MNNIT Allahabad
 - Mentored **20+ mentees** and conducted Technological events, fostering their knowledge acquisition. Aug'22 - Mar'24
- **Rotaract Club MNNIT** Club Member
 - Arranged donation drive camps and weekly visits to Old Age Homes and Blind Schools. Oct'22 - Feb'24
- **Ambassador and Super Doubts Solver at Infinity Learn** EdTech
 - Helped more than **500** students by providing good quality solution. Jan'21 - Nov'22