

Ashutosh Kumar

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EDUCATION

- **Indian Institute of Technology(IIT) Patna** **July 2020 - May 2024**
Bachelor of Technology in Computer Science and Engineering. *CPI: 8.58*
- **Kendriya Vidyalaya Bailey Road Patna** **May 2019**
Class XII, CBSE *Percentage: 92.8%*

WORK EXPERIENCE

- **SDE Intern - Amazon, Hyderabad** **May 2023 - July 2023**
Team: WW Returns and ReComm Tech Inn
 - Captured the failures occurring in the generation of **Amazon Prepaid Label** (APRL) due to LXS, Address, PCE and MerchantShipping services when called from PurchaseLabel and GetAcceptableTransportationPlans API.
 - In case of failure in APRL generation, displayed the reason for failures, contact information of the failed services and timestamp on River Portal to help the Seller Partner team to quickly contact the failed service regarding the issue.
 - Created a **Ticketing Template** on River Portal to get necessary information from the user creating Trouble Ticket.

ACCOMPLISHMENTS

- **Specialist** on **Codeforces** with maximum rating **1585**.
- **4 Star** on **Codechef** with maximum rating **1823**.
- **Knight** on **Leetcode** with maximum rating **2044**.
- Secured a rank of **690** out of **14000** participants in **Google Kickstart Farewell Round A**.
- Secured an all India rank of **187** out of **4568** participants in **Meta Hacker Cup, Round 1, 2023**.
- Secured an all India rank of **4067** out of more than **2.4 lakh** candidates in JEE Advanced 2020.
- Secured an all India rank of **4045** out of more than **11 lakh** candidates in JEE Mains 2020.

PROJECTS

- **Twitter Sentiment Analysis** **Source Code** [↗](#)
Natural Language Processing (NLP)
 - The aim of this project is to predict the sentiments of tweets and classify them as positive, negative or neutral.
 - The project involve several steps, including **Data Pre-Processing**, **Exploratory Data Analysis**, **Feature Extraction** using Bag of Words, **Model Training** and **Evaluation**. Then **Bi-directional LSTM** is used to fit the data followed by model evaluation using different metrics.
 - **Results:** Accuracy: 0.9183, Precision: 0.9242, Recall: 0.9135, F1-score: 0.9188.
- **Hotel Reservations Cancellation Prediction** **Source Code** [↗](#)
Data Science
 - The aim of this project is to predict the possible reservations that are going to be cancelled by the customers by analyzing various features and variables associated with the reservation.
 - The project involve several steps, including **Data Pre-Processing**, **Exploratory Data Analysis**, **Feature Engineering**, **Model Selection**, and **Evaluation**. The dataset will be prepared by handling missing values, encoding categorical variables, removing outliers and scaling numerical features. Classification algorithms such as **Logistic Regression**, **Decision Tree**, **Random Forest** and **Support Vector Classifier** are used for evaluation.

SKILLS/RELEVANT COURSEWORK

- **Programming/Development Languages:** C/C++, Java, HTML, CSS, JavaScript, ReactJS, MySQL.
- **Tools/Technologies:** Git, Firebase, Logisim, Modelsim.
- **Core Courses:** Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Database Management System, Computer Networking, OOPs and Operating System.
- **Mathematics:** Probability and Random Processes, Multivariable Calculus, Linear Algebra, Complex Analysis.

SOCIETIES/EXTRA-CURRICULAR ACTIVITIES

- **Sub-Coordinator** of Media and Public Relation Committee, TEDxIITPatna (3rd Edition).
- Working as **Subject Matter Expert (Mathematics)** at Kunduz Tutor.