




Bhukya Sagar

Senior Undergraduate | IIT Kanpur | Chemical Engineering |  bhukyas20@iitk.ac.in |  bhukya-sagar |  8247462023

EDUCATION

Year	Degree	Institute
2020 - 2024	B.Tech	Indian Institute of Technology, Kanpur
2020	TSBIE (XII)	Sr junior college, Hanamkonda
2018	TSBSE (X)	Zilla Parishad High School, Narsimhulapet

SCHOLASTIC ACHIEVEMENTS

- Received a medal and merit certificate for outstanding performance in **National Mathematical Talent Search Competition**
- Awardee of the NMMS scholarship conducted by Central Govt of India appeared by **1.1 million** candidates

WORK EXPERIENCE


Data Scientist Intern | **Technocolabs Softwares** | [Received **LOR** for execeptional performance] (August'23 - November'23)

Objective	- To develop a predictive model to assess a startup's financial status based on Crunchbase's 2013 financial data - To address the challenge of high data bias without relying on over and under sampling techniques
Approach	- Utilized a dataset featuring financial information on companies with statuses (Operating, IPO, Acquired, Closed) - Applied feature extraction and selection methods to convert qualitative data into a quantitative format - Implemented models such as Quadratic Discriminant Analysis and Random Forest Classifier - Employed an Ensemble-based technique to enhance precision and accuracy in predicting company statuses
Impact	- The ensemble model yielded a 98.36% accuracy and precision on the training set, surpassing baseline models - Enhanced decision-making through EDA insights and Streamlined model deployment for versatile applications

KEY PROJECTS

Google Data Analytics Capstone Project | *Self Project* |  (June'23 - August'23)

Objective	- Analysis of bike ride data for a bike-sharing firm to discern divergences in bike usage between casual and member riders to increase the number of member riders. Streamlined database interaction.
Approach	- Cleaned over 5.9 million data points, eliminating duplicates using Excel . Calculated key metrics and visualized trends via pivot tables for comprehensive analysis. Made Power BI dashboards for enhanced data visualization - Employed SQL Server , utilizing robust techniques including UNION ALL and GROUP BY to craft queries. - Fine-tuned OpenAI's GPT model to generate database related queries based on natural language prompts.
Impact	- Revolutionized data querying by transforming complex SQL coding into intuitive natural language queries, empowering users to retrieve insights effortlessly by pivot tables, dashboards

T20 World Cup Analytics[**Python** | **Web scrapping** | **Pandas** | **Power BI**] | *Self Project* |  (May'23 - July'23)

- Developed influential Power BI report using **Brightdata** for live cricket **stat extraction** from espncriinfo
- Employed **pandas** transformations for top **player insights**. Leveraged Power BI to curate **team of 11 across categories**
- Optimized player selection and thus achieved outstanding **90% win rate**, showcasing data's pivotal match-shaping role

Business Analyst Experience Program | Finlatics  (March'23 - May'23)

- Assessed business problems and proposed solutions using an approach of **data driven decision making**
- Solved **industry specific** and **company specific case studies** of technology oriented businesses to improve their profitability
- Used **Power BI**,to gain insights into marketing campaigns,consumer behaviour and product preferences using business real data

Stocks Price Prediction | *Self Project* |  (August'23 - October'23)

- Developed a robust **Time Series Analysis** model for precise **VWAP** prediction, enhancing investor **decision-making**
- Leveraged historical market data and **engineered lag features** to enhance predictive modeling accuracy
- Utilized dynamic rolling windows and pmdarima for optimal ARIMA model selection, emphasizing precision in time series analysis
- Attained an **RMSE** of around **187.75** and **MAE** of about **124.64**, showcasing the model's accuracy in forecasting stock prices

TECHNICAL SKILLS

- Programming Languages:** Python, R, SQL, C, C++, Matlab, Simulink
- Softwares/Tools:** MS Excel, Power BI,Tableau, Google Bigquerry, \LaTeX , MS Powerpoint, MySQL,Aspen-Plus,DWSIM

Relevant Courses **Ongoing*

- Google Data Analytics Specialization**, Design for AR/VR*, **Fundamentals of Computing**
- Engineering graphics, **Introduction to Electronics**, **Linear Algebra & ODE**, **Computational Methods in Engineering**
- Mathematical Methods in Chemical Engineering**, Heat Transfer and its Applications, Chemical Engineering Design

POSITIONS OF RESPONSIBILITY

Organizer,Events and Competition |**Udghosh'22**| **IIT Kanpur** (May'22 - Oct'22)

INR Budget| **40 Lakh** | **20+** Sports Games | Part of the **Core Team** of **One of Asia's Largest** College Sports Festivals

- Event Leadership: Led a team of 80+ students, organizing formal and informal events during the fest and prefest
- Campus Ambassador Program: Launched a PAN India program with 3000+ participants, offering career internships
- Organized nationwide events (UNOSQ, Poker, Chess, E-sports) with 5000+ participants, achieving a 50% increase in pre-fest

Senior Executive|**Techkriti**| **IIT Kanpur** (Nov'21 - Mar'22)

- As a senior executive,visited schools to **encourage students** to take the **TOSC** (Techkriti Open School Championship) Exam
- Contacted a few local schools by **phone** and **email** to inform them about the **TOSC** opportunity
- Provided feedback on TOSC's Phase 1 Pool A question paper while creating the questions for Phase 1 Pool C and Phase 2

Miscellaneous

- Got certification for completing the NSS, IIT Kanpur's 8-day **Universal Human Values** Workshop
- Performed a **dance routine** at the TSS,IITK Fests and another at the school's farewells