

Bhavana Pansare

Data Analyst

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PROFILE:

Currently pursuing a Master's in Data Analytics at Queen's University Belfast, with a focused aptitude for addressing complex analytical problems. Highly skilled in Python and R, demonstrating proficiency across various database technologies including SQL, MySQL, and PandaSQL. Exhibits strong expertise in data visualization utilizing tools such as ggplot in R and PyTorch for programming. Well-versed in both supervised and unsupervised machine learning methods, as well as deep learning techniques with PyTorch. Experienced in developing web applications using Shiny in R, underpinned by effective communication abilities showcased in collaborative projects with peers, supervisors, and stakeholders.

SKILLS:

- **Programming:** Python (Pandas, NumPy, Matplotlib), R (ggplot2, Dplyr, Caret, Tidyverse), Java
- **Data Visualization & Tools:** Power BI, Tableau, MS Office Suite, React JS
- **Web Development:** HTML, CSS, XML, Shiny (R)
- **Machine Learning & Big Data:** PyTorch, Deep Learning, Hadoop, PySpark, Sqoop
- **Database Management:** SQL (MySQL, PandaSql, PostgreSQL)

EDUCATION:

- **Queen's University Belfast** **Sept 2023 – Sept 2024**
Master's of Data Analytics
Belfast, United Kingdom
Core Modules:
Data Analytics Fundamentals: 71
Machine Learning: 81
Frontiers in Analytics: 88
Database & Programming Fundamentals: 85
- **Mumbai University** **Aug 2018 – Jun 2021**
Bachelors of Engineering - Information Technology (B.E.)
Mumbai, India
CGPA: 9.22/10.00
Core Modules: Computer Organization & Architecture, Operating Systems, Statistics, Computer Networks, Big Data, Machine Learning, Database Management System, Data Mining, Business Analytics, Python Programming.

PROFESSIONAL EXPERIENCE:

- **Emtec Inc. (Software Developer)** **Jun 2021 – Aug 2023**
 - Leadership role in Requirement Gathering and conducted comprehensive data exploration to inform strategic decision-making
 - Proficient in data manipulation using Python libraries (NumPy, Pandas, Matplotlib, Scikit-learn), ensuring efficient handling of large datasets, optimized data quality, and maintained high accuracy levels
 - Executed measures in Database Management and achieved 40% increase in data retrieval speed through adept query optimization for MySql and PostgreSQL databases
 - Innovated interactive dashboards for real-time service monitoring and created charts using Matplotlib library, resulting in reducing issue resolution time
 - Showcased knowledge in back-end applications, including RESTful API, Microservices, and GraphQL
 - Applied Agile methodologies expertise, demonstrating proficiency in JIRA, and led seamless deployment
- **Incisiv Ltd. (Data Analyst Intern)** **Jun 2024 – Sep 2024**
 - Collaborated on redesigning an existing Power BI dashboard to enhance visualization and usability of neural fitness data derived from VR tests, focusing on elite athletes and stroke recovery patients.
 - Played a key role in implementing standardized scoring and percentile rankings, including algorithm refinement and integration into the dashboard to provide comparative and individual performance insights.
 - Assisted in optimizing back-end processes by proposing modifications to the existing SQL database, aiming to improve performance through the implementation of BI DAX functions as stored SQL procedures.

PROJECTS:

Electricity Market Data Analytics, Energia Group

Jun 2021 – Aug 2023

- Spearheaded the examination of Energia's comprehensive Electricity Industry Dataset, focusing on renewable sources across the All Island grid
- Devised an approach to distinguish market days using net demand metrics and data clustering, enhancing trading decision efficiency
- Oversaw data enhancement and trend analysis in wind energy and demand metrics
- Implemented cosine similarity and KMeans to streamline trading strategies

Satellite Data-Driven Greenspace Classification, Deloitte

Jun 2021 – Aug 2023

- Pioneered Analytathon 2's machine learning project to identify greenspaces in Belfast using Sentinel-2 L2A imagery
- Orchestrated scene masking and data segmentation, preparing inputs for advanced modeling
- Evaluated several deep learning architectures including DeepLabV3 and U-Net, achieving 99.82% classification accuracy with U-Net Plus
- Assessed models using precision and recall metrics, offering strategic enhancements for future applications

Hurricane Ian Economic Impact Analysis, KDC Insurance Company

Jun 2021 – Aug 2023

- Led the assessment of Hurricane Ian's economic effects on insured assets, augmenting the company's risk assessment framework
- Managed data integration and refinement, ensuring robust analysis through advanced preprocessing techniques
- Quantified financial risks in susceptible regions, focusing on the most impacted ZIP codes
- Developed dashboards to elucidate risk patterns, facilitating proactive management decisions

TRAINING & CERTIFICATE:

- Core and Advanced Python from TechnoJack Infosolutions
- Virtual Internship in Data Analytics by KPMG
- Data Visualization with DAX in Power BI
- Core and Advanced Java from Mikado Solutions
- Full Stack Big Data Cloud Course from Zeyobron
- Text and Sentiment Analysis in R and Python
- Building Web Applications with Shiny in R

AWARDS AND EXTRACURRICULAR ACTIVITIES:

- Received an **Excellence Award** at Emtec Inc. for of valuable contributions
- **University 1st Rank holder** and **academic topper** during the Bachelor of Engineering program
- Data **Organized a soft skills and personality development program** sponsored by the **All-India Council for Technical Education (AICTE)**
- Held the position of **President of College** during the Bachelor of Engineering program
- Appointed as a **core committee member for the national-level technological festival** organized by the Department of Information Technology and also the **Finalist at the Smart India Hackathon**
- Text Awarded the **first rank** in the game of **Kho-Kho** at the Cultural Festival of MGM, Navi Mumbai
- Served as a **student academic head** for two consecutive years
- **Volunteered** at 'All Saints Home', an **Old Age Home** at Dockyard, Mumbai