Tarun Bhatia

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EDUCATION

Pranveer Singh Institute of Technology   (*Dec 2022 – Ongoing*)
Computer Science and Engineering (Data Science), **CGPA: (7.85/10.00)**

St. Francis Xavier's Inter College   (*Apr 2019 – Mar 2022*)

    Intermediate – **78%**
    High School – **84%**

WORK EXPERIENCE

Data Analyst Internship

Kulture Hire (REMOTE) **3 months**   (*Sep 2024 - Nov 2024*)
- Conducted data and exploratory analysis using object-oriented programming, ensuring data security and scalable architecture.
- Improved actionable insights by 20% through structured EDA workflows.
- Designed and implemented interactive dashboard interfaces using modern programming languages (Python, JavaScript).

PROJECTS

Air Sona: *An AI Driven AQI Solution:*   (*Mar 2025 – Ongoing*)
    Role: Team Leader, **Members:** 5
    Tech Stack: React.js, Next.js, Node.js/Express.js, Tailwind CSS, Prisma ORM, Machine Learning Algorithms, IBM Cloud.
- **Real-time AQI Monitoring & Prediction** using **Machine Learning Algorithms** deployed on **IBM Cloud**.
- Smart Tree Plantation Planning & Visualization through **React.js, Next.js, Tailwind CSS** for an interactive dashboard. Data Management & **API Integration** using **Node.js/Express.js with Prisma ORM** for seamless backend operations.

Wafer Fault Detection Link   (*Sep 2024 – Jan 2025*)
    Role: Team Leader & Optimizing Predictive Models, **Members:** 5
    Tech Stack: Python, Scikit-learn, TensorFlow, NumPy, Pandas.
- Built a scalable ML/DL pipeline to classify wafer usability from 590+ sensor signals.
- Optimized model efficiency using PCA, hyperparameter tuning, and feature engineering. Deployed models using Flask for API integration; visualized results via Matplotlib.

Brainy Ally Chatbot Link   (*Sep 2023 – Dec 2024*)
    Role: Team Leader **Members:** 5
    Tech Stack: React.js, Java, TensorFlow, NLP, HTML/CSS, Node.js
- Built a health-focused chatbot using React.js frontend and Java + TensorFlow backend, achieving 89% intent classification accuracy.
- Implemented NLP preprocessing, tokenization, and named entity recognition (NER) using custom rule-based models. Focused on UI/UX design for a conversational interface; ensured smooth interaction using async API integration and session storage.

SKILLS & INTERESTS

- ***Programming Languages:*** Python, C++, C, JavaScript, Java.
- ***Tools:*** GIT, VS Code, PyCharm, Google Collab, Anaconda
- ***Databases:*** *My*SQL, NOSQL.
- ***Data Analysis:*** Matplotlib, Pandas, NumPy, Seaborn.
- ***Courses:*** DBMS, OS, Data Analytics, Machine Learning, Deep Learning, Statistics
- ***Languages:*** English, Hindi

CERTIFICATION & OTHER AFFILIATIONS

Glam & Tech. Hackathon: Conducted a technical hackathon to advance skills, and encourage participants to tackle real-life issues.
Volunteering: Chairperson – IEEE Aerospace and Electronic System Society PSIT.

Certifications:

- Machine Learning & Deep Learning – Udemy
- Quantitative Research Virtual Internship – JP Morgan Chase & Co
- Microsoft Excel – Udemy
- Git and GitHub – PW Skills
- Analytical Dashboard (Power BI) – PW Skills