Abhishek Raghuwanshi
Technology and Development
Indian Institute of Technology Bombay
Mobile Number – +91 7067242829
Email – abhishekraghuwanshi2022@gmail.com
LinkedIn - *LinkedIn*
Portfolio - *Portfolio*

22M0204
M.Tech.
Gender: Male
DOB: 05/07/199

Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2024	8.09

PROFESSIONAL EXPERIENCE

iNDX.Ai
Full Stack Developer

Full Stack Developer [Jul'24 – Dec'24]
- Developed a **Leave Management Application** using **Node.js, Express**, and **PostgreSQL**, to improve employee leave request efficiency by automating approval workflows and integrating **Sequelize** for database interaction
- Created a **Music Streaming Platform** from scratch, implementing features such as user playlists, song recommendations, and media streaming with **Svelte** for a dynamic frontend, supported by a **Node.js** and **PostgreSQL** backend, utilized **Git** and **Bitbucket** for collaboration with cross-functional teams

WORLD BANK
Research Intern

Data Analysis and Visualization of HMIS and NFHS-5 Dataset for Manipur State [May'23 - Jun'23]
- Created dataset of **50+ major health indicators** out of **250+ indicators** using **Exploratory Data Analysis**
- **Analyzed** health data having 1.5lac records using **Python** and performed **ETL operations** using **PostgreSQL**
- **Developed** an interactive **Dashboard** that gives relationship among different indicators using **Tableau**

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

ASSOCIATE PLACEMENT MANAGER

Initiatives

Policy Making

Student Head | Institute Placement Team [Sep'22 – Dec'22]
*Leading a 3 tier-team of **300+ members** entrusted with placements and internships of **4100+ students***
- Achieved **14%** higher selection on Internship Day 1 by redesigning the model & reducing redundant interviews
- Pioneered sector specific mock assessments; achieved **80%+ positive** feedback, **68% increase** in participation
- Deployed a central resume verification portal to upgrade user experience & security; saving **150+ man-hours**
- **Negotiated** deal to introduce a structured analytics & quant test preparation platform; aided **1500+** students
- Reduced duplicates in target firms by **43%**, to establish optimized contacting & uniform load per coordinator
- Introduced an advanced offer acceptance mechanism; automated shortlist tracking, to save **70+ man-hours**
- Performed quantitative analysis of pre-existing job categorization model to redefine the compensation ranges
- Reformed the **Student Placement Policy** to resolve disparity in Bonus & 2nd job opportunities for IDC students

COMPANY COORDINATOR

*Felicitated with **Special Mention (6 out of 36)** in cognizance of exceptional contribution* [Jun'23 - Jun'24]
- Single-handedly accounted for **15.9%** of total non-core offers **(62 of 388)** through databasing and contacting
- Garnered **11.2% growth** in total non-core and core placement through a strategized year-long plan of action
- Led a team of **8** Interview Coordinators to handle on ground operations of the Institute Placement Interviews
- Liaised with **200+ firms**, expanded non-core database by **150+ firms**; conducted **10** aptitude and coding tests

KEY PROJECTS

MACHINE LEARNING APPLICATION

Effectiveness of various Machine Learning Algorithms in Predicting the Stock Prices of NIFTY [Jan'23 - May'23]
- Utilized **Y Finance API** for model training/testing & employed **data prep techniques & feature selection**
- Evaluated performance of **LSTM, SVR, Ridge Regression, Random Forest** using **MAE, RMSE, NRMSE, R^2**
- Achieved the best **R^2** value of **0.84** through LSTM by using **hyper-parameter tuning and cross-validation**

CHATBOT DEVELOPMENT

Development of LLM-based Chatbot for Agricultural Data | Ministry of Agriculture & FW [Feb'25 - Present]
- Building a **chatbot** using fine-tuned LLMs for seamless natural language access to agriculture data by officials
- Using **RAG** architecture to efficiently retrieve info from **structured datasets** and **policy document**
- Boosting data access efficiency by 60% through prompt tuning and **LLM model optimization**

NATURAL LANGUAGE PROCESSING (NLP)

Natural Language Processing based Twitter Data Sentiment Analysis [Apr'23 - Jun'23]
- Compared performance of **LSTM & Naive Bayes** classifier in classifying 99000+ tweets as positive & negative
- Achieved accuracy of **78.01%** with LSTM on applying **GloVe** word embedding & **76.35%** with **Multinomial NB**

EXTRA-CURRICULAR ACTIVITIES

CERTIFICATES & ACHIEVEMENTS
- Received **Certificate of Excellence** for APM tenure from Placement Office IIT Bombay
- Secured **Gold Medal** in **Carrom** for Hostel-18 under Hostel General Championship 2022
- Curriculum writer for **Women Empowerment** and Girl Education at Team Everest NGO
- Fund raising intern for the **Malnourished Children** of Delhi at Hamari Pahchan NGO
- **Hobbies**: Playing Cricket & Carrom, Watching Anime & Movies, Listening Music, and Reading Books

RELEVANT SKILLS
Libraries/Frameworks: PyTorch, TensorFlow, Scikit-learn, Matplotlib, NumPy, Pandas, Express.js, Node.js
Programming Languages: Python, JavaScript
Tools: PostgreSQL, MySQL, MS – Excel, Tableau, Power BI, QGIS, Microsoft Projects, Git, Bitbucket, GitHub
Soft Skills: Teamwork, Reasoning, Communication, Leadership, Problem-Solving, Creativity, Management