



Abhishek Raghuwanshi

Gender – Male

Major in Technology and Development

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Examination	University	Institute	Year	CPI / %
Post Graduation	IIT Bombay	IIT Bombay	2024	8.09
PROFESSIONAL EXPERIENCE				
Ministry of Agriculture and Farmers Welfare <i>Research Associate (AI)</i>	<i>Research Associate (AI)</i> [Feb'25 – Present] <i>Development of LLM-based Chatbot for Agricultural Data</i> <ul style="list-style-type: none">Building a chatbot using fine-tuned LLMs for seamless natural language access to agriculture data by officialsUsing RAG architecture to efficiently retrieve info from structured datasets and policy documentBoosting data access efficiency by 60% through prompt tuning and LLM model optimization			
	<i>Soybean Images Classification Model</i> <ul style="list-style-type: none">Developed a classification model via fine-tuning EfficientNet-B0 for binary classification of ~10M+ imagesImplemented comprehensive EDA on train/test data & evaluation metrics to optimize model performanceAchieved an F1-score of 0.96 on val & test sets, demonstrating high performance on low-quality images			
iNDX.Ai <i>Full Stack Developer</i>	<i>Full Stack Developer</i> [Jul'24 – Dec'24] <ul style="list-style-type: none">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 interactionCreated 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			
	<i>Data Analysis and Visualization of HMIS and NFHS-5 Dataset for Manipur State</i> [May'23 – Jun'23] <ul style="list-style-type: none">Created dataset of 50+ major health indicators out of 250+ indicators using Exploratory Data AnalysisAnalyzed health data having 1.5lac records using Python and performed ETL operations using PostgreSQLDeveloped an interactive Dashboard that gives relationship among different indicators using Tableau			
WORLD BANK <i>Research Intern</i>				
KEY PROJECTS				
NATURAL LANGUAGE PROCESSING (NLP)	<i>Natural Language Processing based Twitter Data Sentiment Analysis</i> [Apr'23 – Jun'23] <ul style="list-style-type: none">Compared performance of LSTM & Naive Bayes classifier in classifying 99000+ tweets as positive & negativeAchieved accuracy of 78.01% with LSTM on applying GloVe word embedding & 76.35% with Multinomial NB			
MACHINE LEARNING APPLICATION	<i>Effectiveness of various Machine Learning Algorithms in Predicting the Stock Prices of NIFTY</i> [Jan'23 – May'23] <ul style="list-style-type: none">Utilized Y Finance API for model training/testing & employed data prep techniques & feature selectionEvaluated performance of LSTM, SVR, Ridge Regression, Random Forest using MAE, RMSE, NRMSE, R²Achieved the best R² value of 0.84 through LSTM by using hyper-parameter tuning and cross-validation			
LEADERSHIP & ORGANIZATIONAL EXPERIENCE				
ASSOCIATE PLACEMENT MANAGER	<i>Student Head Institute Placement Team</i> [Sep'22 – Dec'22] <i>Leading a 3 tier-team of 300+ members entrusted with placements and internships of 4100+ students</i> <ul style="list-style-type: none">Achieved 14% higher selection on Internship Day 1 by redesigning the model & reducing redundant interviewsPioneered sector specific mock assessments; achieved 80%+ positive feedback, 68% increase in participationDeployed a central resume verification portal to upgrade user experience & security; saving 150+ man-hoursNegotiated deal to introduce a structured analytics & quant test preparation platform; aided 1500+ students			
Initiatives	<ul style="list-style-type: none">Reduced duplicates in target firms by 43%, to establish optimized contacting & uniform load per coordinatorIntroduced an advanced offer acceptance mechanism; automated shortlist tracking, to save 70+ man-hours			
Policy Making	<ul style="list-style-type: none">Performed quantitative analysis of pre-existing job categorization model to redefine the compensation rangesReformed the Student Placement Policy to resolve disparity in Bonus & 2nd job opportunities for IDC students			
EXTRA-CURRICULAR ACTIVITIES				
CERTIFICATES & ACHIEVEMENTS	<ul style="list-style-type: none">Received Certificate of Excellence for APM tenure from Placement Office IIT BombaySecured Gold Medal in Carrom for Hostel-18 under Hostel General Championship 2022Curriculum writer for Women Empowerment and Girl Education at Team Everest NGOFund raising intern for the Malnourished Children of Delhi at Hamari Pahchan NGOHobbies: 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			