



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	B.TECH	IIT Kharagpur	6.11 / 10
2022	HSC	Dr. Babasaheb Ambedkar College, Deekshabhoomi Nagpur	78.33%
2020	SSC	Navjeevan Dnyaanpeeth English Medium School, Pusad	94.20%

INTERNSHIPS

Data Science Intern FruitBowl Digital Media	[May'25 - Aug'25]
<ul style="list-style-type: none">Engineered psychological profiles by analyzing conversational data with NLP, embeddings, and multi-domain semantic pipelinesBuilt ontology-driven classification with 40k+ facets across psychology, spirituality, and behavior, enhancing profile accuracyDesigned Neo4j graph database structure to store embeddings and enable similarity search for real-time seeker-facilitator matchingDelivered scalable data profiling pipeline integrating Python, Flask, and rating systems to generate adaptive user insights dynamically	

PROJECTS

Sentiment Analysis on Healthcare Apps Self Project	[Jul'25 - Aug'25]
<ul style="list-style-type: none">Conducted large-scale sentiment analysis of 3L+ users across 5 healthcare apps using NLP preprocessing and feature engineering.Built topic models with Latent Dirichlet Allocation (LDA) and extracted semantic features using TF-IDF for clustering user concerns.Applied TextBlob and Vader sentiment models to analyze polarity trends, identifying satisfaction levels with actionable insights.Visualized sentiment distributions using scatter plots, heatmaps, and bar charts to present results for academic research impact.	
Stock Price Forecasting with GAN and Twitter Sentiment Analysis Self Project	[Oct'24 - Nov'24]
<ul style="list-style-type: none">Utilized NLTK Vader sentiment analysis to process large-scale Twitter datasets on Amazon stock in real time and extracting polarityIntegrated sentiment signals with historical stock data using technical indicators such as EMA, MA, MACD, and Bollinger Bands.Deployed advanced Generative Adversarial Network models for stock price forecasting, reducing MAPE to 3.8% with robustness.Built an end-to-end forecasting pipeline combining NLP, deep learning, and sentiment signals to capture market financial movements.	
Food Demand Forecasting Using Time Series Models	[Nov'25 - Dev'25]
<ul style="list-style-type: none">Analyzed large-scale meal demand data from Weeks 1–145 using statistical EDA with ACF and PACF to detect autocorrelation patternsImplemented ARIMA-X, SARIMA-X, and exponential smoothing models for multi-seasonal demand forecasting with trend adjustmentsEvaluated forecasting accuracy with MAPE of 4.5% and SMAPE of 6.02% on test datasets, ensuring reliable demand predictionsDelivered a reproducible forecasting pipeline in Python with structured preprocessing, automated training, and better visualization	
Disease Prediction Using Drug Review Dataset Self Project	[Jul'25 - Aug'25]
<ul style="list-style-type: none">Processed 50k+ drug reviews mapped to medical conditions, applying lemmatization, stopword removal, and TF-IDF feature extractionBuilt supervised machine learning models with Multinomial Naive Bayes and Passive Aggressive Classifier for robust classificationOptimized predictive models using detailed n-gram analysis and extensive hyperparameter tuning, achieving peak accuracy of 98.3%Created scalable ML workflow in Python with langraph, ensuring reproducibility and high interpretability with feature matrix analysis	

COMPETITION/CONFERENCE

Band Gap Prediction in Perovskite Oxides Excavate 2025	[Mar'25 - Jun'25]
<ul style="list-style-type: none">Achieved 2nd position by classifying complex perovskite oxides as insulators vs non-insulators using Random Forest and XGBoost.Designed advanced regression models to predict band gap values with engineered descriptors and optimized Gradient Boosting.Performed detailed feature importance and SHAP analysis to identify critical predictive features, improving interpretability of results.Built a scalable ML pipeline in Python with structured preprocessing, automated training, visualization, and reporting workflows.	

SKILLS AND EXPERTISE

Languages/Skills: Python C C++ SQL DSA Software: Visual Studio Jupyter Notebook MS Excel GitHub MySQL Docker
Libraries/Frameworks: NumPy Pandas Matplotlib Seaborn Scikit Learn Pytorch Tensorflow Keras LangChain LangGraph
Courses: Programming &Data Structures Probability &Statistics AI for Economics File Organization &Database Management Systems
Soft Skills: Team Collaboration Problem-Solving Communication Leadership Time Management Adaptability Critical Thinking

POSITIONS OF RESPONSIBILITY

Game Dev and Content Head Computer Graphics Society, TSG	[Jan'23 - Present]
<ul style="list-style-type: none">Implemented player analytics in developed games, tracking engagement metrics and optimizing gameplay balance using data insightsDesigned in-game data pipelines to collect user interaction logs, enabling analysis of player retention, churn, and performance trendsApplied machine learning models to predict difficulty adjustments, ensuring adaptive gameplay and enhanced player satisfactionVisualized game performance with Python and Tableau, providing actionable insights for design iterations and feature updates	

COURSEWORK INFORMATION

Mathematics and Programming: Probability and Statistics Linear Algebra Advanced Calculus Programming and Data Structures
Core Electronics: Analog Electronics Network Theory Digital Electronic Circuits Signals and Systems Electrical Machines
Online Courses: Advanced Machine Learning (Coursera) AWS Basics to Advanced (Udemy) Google Data Analytics IDM Data Science

EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none">Led fundraising at Khudarpn Foundation, raising INR 1.27L to support education &healthcare for underprivileged childrenLed a 90+ team producing Diwali illumination and rangoli at Radhakrishnan Hall, enhancing creativity and engagement
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