

## EDUCATION

### B.Tech, Computer Science & Engineering

JIMS Engineering Management Technical Campus  
(JEMTEC)  
2022 - 2026

### Senior Secondary (XII), Science

Gyan Mandir Public School, Naraina Vihar, New Delhi -12  
(CBSE board)  
Year of completion: 2022  
Percentage: 80.4%

### Secondary (X)

Tagore Public School, Naraina Vihar, New Delhi-12  
(CBSE board)  
Year of completion: 2020  
Percentage: 77.00%

## WORK EXPERIENCE

### Machine Learning

Bharat Intern, Virtual  
Internship • Feb 2024 - Mar 2024 (1 month)  
Built Machine Learning Models  
Learnt advanced concepts of NLP, Computer Vision

### Digital Intelligence

PWC/Forage, Virtual  
Job Simulation • Aug 2024 - Sep 2025  
During my internship at PwC, I worked on advanced data analytics, predictive modeling, and AI-driven solutions. My key responsibilities included:  
Responsible AI – Implemented ethical AI frameworks, ensuring transparency and fairness in machine learning models.  
Quant Finance Modelling – Developed financial models to analyze risk, trends, and market behavior.  
Data Analytics Strategy – Built data-driven strategies for optimizing business processes and decision-making.  
Predictive Healthcare – Applied predictive analytics to healthcare data, improving patient outcomes and resource allocation.

### Data Analytics Intern

Tata Group |  
Job Simulation • Sep 2024 - Oct 2024  
During my internship at Tata Group, I worked on data visualization, business intelligence, and strategic analytics. My key responsibilities included:  
Framing the Business Scenario – Defined business problems, identified key metrics, and structured analytical approaches.  
Choosing the Right Visuals – Selected appropriate visualization techniques to represent complex datasets effectively.

Creating Effective Visuals – Built interactive dashboards and reports to communicate insights clearly.  
Communicating Insights and Analysis – Presented data-driven recommendations to stakeholders for better decision-making.  
This experience strengthened my skills in Power BI, Python, Business Intelligence, and Data Storytelling, enhancing my ability to drive data-driven decisions

POSITIONS OF  
RESPONSIBILITY

Social Media manager at Clg Of ARCANE(Gaming Club),  
managed the social media representation.

TRAININGS

**Data Science Mega Course**

Udemy, Online

Dec 2024 - Present

This comprehensive course covers the fundamentals of Data Science, including data cleaning, visualization, statistical analysis, and machine learning. It provides hands-on experience with Python, Pandas, NumPy, Matplotlib, and Scikit-learn. The course also explores real-world applications, guiding learners through end-to-end projects in predictive analytics, NLP, and deep learning.

**Data Science and Machine Learning**

Udemy, Online

Oct 2024 - Present

This course provides in-depth knowledge of Data Science and Machine Learning, covering key topics such as data preprocessing, exploratory data analysis, feature engineering, supervised and unsupervised learning, and model evaluation. It includes hands-on projects using Python, scikit-learn, TensorFlow, and Power BI to develop real-world AI solutions. The course also emphasizes practical applications in predictive modeling, NLP, and time series analysis.

**Machine Learning and Deep Learning bootcamp**

Udemy, Online

Oct 2023 - Oct 2024

This comprehensive bootcamp covered fundamental and advanced concepts in Machine Learning and Deep Learning. It included hands-on experience with Python, TensorFlow, and scikit-learn, focusing on real-world applications such as predictive modeling, neural networks, and deep learning architectures. The course also emphasized data preprocessing, model evaluation, and optimization techniques.

**Data Analytics with Python**

Jobaaj Learning, Online

Dec 2023 - Aug 2024

In this course, I was provided with learning materials, videos from different technologies necessary for data analytics like Python, Power BI, SQL and Machine Learning. This project has many hands-on projects helping to figure out how things actually work at companies

## **Employee Productivity & Well-being Analytics**

Dec 2024 - Jan 2025

[https://github.com/Amalgamator04/employee\\_productivity](https://github.com/Amalgamator04/employee_productivity)

A Data Collection & Cleaning – Processed raw HR data, handled missing values, and removed duplicates.

Exploratory Data Analysis (EDA) – Identified key trends in employee performance and well-being metrics.

Advanced Visualizations – Created interactive dashboards showcasing productivity trends, department-wise efficiency, and employee satisfaction levels.

Predictive Analytics – Used machine learning models to forecast employee burnout and suggest improvement strategies.

This project enhanced my skills in business intelligence, data visualization, and predictive modeling, providing actionable insights for workforce optimization.

## **Image Scrapper(Web App)**

Mar 2024-Mar 2024

<https://github.com/Amalgamator04/Scrapper/blob/main/scrapper.py>

Developed a web-based Image Scraper that extracts images from the web based on user-defined search queries. The application automates image retrieval, making it useful for data collection, research, and AI model training.

Key Contributions:

Web Scraping: Utilized BeautifulSoup & Selenium to extract images from web pages dynamically.

Automation & Efficiency: Enabled batch downloads with URL validation and error handling.

User-Friendly Interface: Built a Streamlit web app for easy query-based image extraction.

Data Storage: Implemented automatic folder structuring to organize downloaded images efficiently.

## **Next Word Predictor Using LSTM**

Oct 2023 - Dec 2023

[https://github.com/samvlp03/Iris\\_Classification.git](https://github.com/samvlp03/Iris_Classification.git)

Developed a Next-Word Prediction Model using LSTM (Long Short-Term Memory) networks to predict the next word in a given text sequence. The model was trained on a large corpus of textual data for improved accuracy and contextual understanding.

Project Highlights:

Data Preprocessing – Tokenized text, removed stopwords, and converted words to numerical sequences.

Word Embeddings – Used Word2Vec to improve contextual predictions.

LSTM Model Architecture – Implemented stacked LSTM layers for better sequential learning.

Model Training & Optimization – Used Adam optimizer & Categorical Cross-Entropy loss to enhance performance.

Prediction & Deployment – Integrated the model into a Streamlit web app for real-time text predictions.

This project enables real-time sentence completion and can be applied in chatbots, auto-suggestion tools, and AI-assisted writing platforms.

Machine Learning Diabetes App

Oct 2024 - Dec 2024

[https://github.com/Amalgamator04/Mchine\\_Learning\\_diabetes\\_web\\_app](https://github.com/Amalgamator04/Mchine_Learning_diabetes_web_app)

Developed a Diabetes Prediction Web App using Machine Learning to assess the likelihood of diabetes based on user-input health parameters. The app provides real-time predictions, aiding early detection and awareness.

Key Contributions:

Data Preprocessing: Cleaned and normalized medical data from the PIMA Diabetes dataset.

Feature Engineering: Selected key health indicators like glucose levels, BMI, insulin, and age for better model accuracy.

ML Model Implementation: Built classification models using Logistic Regression, Random Forest, and XGBoost to enhance prediction accuracy.

Model Optimization: Used GridSearchCV and hyperparameter tuning to improve performance.

Web App Deployment: Integrated the model into a Streamlit web application for easy user interaction.

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SKILLS

Python

Advanced

English Profciency  
(Written)

Intermediate

MySQL

Intermediate

C++ Programming

Beginner

Music

Intermediate

Machine Learning

Intermediate

SQL

Intermediate

C++ Programming

Beginner

Java

Beginner

Video Editing

Beginner

Database  
Management System  
(DBMS)

Beginner

**Deep Learning**

Beginner

**Data Analytics**

Intermediate

**Data Structures**

Beginner

**CSS**

Intermediate

**Canva**

Beginner

**Efective  
Communication**

Intermediate

**Neural Networks**

Beginner

**Data Science**

Intermediate

**HTML**

Intermediate

**Baking**

Intermediate

**Interpersonal Skills**

Intermediate

**Power-BI**

Intermediate

WORK SAMPLES

**Portfolio link**<https://amalgamator04.github.io/https---github.com-Amalgamator04-PrabhavPortfolio/>