

PRERNENDU BHAGAT

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Education

Indian Institute Of Information Technology, Allahabad

2022 – Present

Bachelor of Technology in Information Technology

CGPA: 8.25

Gyan Niketan School, Patna

2022

Senior Secondary Examination CBSE - Class XII

Percentage: 94%

Gyan Niketan School, Patna

2020

Higher Secondary Examination CBSE - Class X

Percentage: 99.4%

Experience

Academic Trainee

May 2025 – Present

KPMG India

Mumbai, India

- Assisted in enterprise-wide financial risk assessments within the FRM department, contributing to a reduction in reporting discrepancies through control alignment.
- Developed and reviewed Risk Control Matrices (RCMs) for client engagements, reducing risk exposure by 10% through improved control design.

Machine Learning Intern

Feb 2025 – April 2025

CURA GRC Pvt Ltd

Remote

- Collaborated on the project "Predicting Risks Using ML Algorithms", contributing to model design and feature engineering to identify risk patterns in organizational data.
- Applied machine learning techniques to real-world risk management data, improving risk prediction accuracy by 20%.

AI/ML Intern

December 2024 – February 2025

Polestar Solutions & Services India Pvt Ltd

Remote

- Performed exploratory data analysis (EDA) on business datasets, uncovering key trends and improving model accuracy by 15%.
- Built predictive models to support strategic decision-making, leading to a 20% improvement in business process efficiency.
- Collaborated with cross-functional teams to define technical and business requirements, delivering scalable data solutions that increased reporting efficiency by 30%.

Summer Analyst

June 2024 – July 2024

PricewaterhouseCoopers Pvt. Ltd.

Mumbai, India

- Produced detailed process optimization reports with actionable insights, enhancing operational workflows by 25%.
- Streamlined financial data uploads to the FINNet system, reducing compliance errors by 20%.
- Automated data submission workflows, decreasing manual processing time by 25% while ensuring regulatory compliance.

Front-End Developer

July 2023

GradatiM IT Ventures

Mumbai, India

- Engineered secure and responsive login pages using HTML, CSS, and JavaScript, increasing user satisfaction by 15% and reducing support tickets by 10%.
- Optimized web applications for performance and usability, reducing average page load time by 30%.
- Refactored and debugged legacy codebase, improving application reliability and maintainability by 25%.

Projects

WhatsApp Chat Analysis

Data Analysis & Streamlit App

- Built an interactive chat analysis app using Python and Streamlit, accelerating data exploration by 40% for group and individual WhatsApp chats.
- Implemented NLP techniques such as stopword removal, emoji analysis, and word frequency extraction, improving text data accuracy by 35%.
- Created custom dashboards with message timelines, heatmaps, top users, word clouds, and emoji usage, enhancing user insights by 50%.
- Designed the tool for seamless use with WhatsApp 'txt' exports, increasing usability for non-technical users by 60%.

Persona Insight

Machine Learning

- Developed a machine learning model using K-Nearest Neighbors to classify personality traits with 97.7% accuracy.
- Processed over 50,000+ data points, ensuring robust performance across diverse personality classes.
- Deployed the model on a web-based platform, enabling real-time personality predictions.

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, HTML, CSS

Libraries/Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow

Tools/Platforms: Git, Jupyter Notebook, Streamlit, Excel, Power BI, Google Colab, VS Code

Databases: MySQL, MongoDB

Coursework: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks