Prakhar Gupta

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Skills

- ➔ **Programming Languages/Frameworks:** Java, C, C++, Python, SpringBoot.
- ➔ **Platforms**: MySQL Database.
- ➔ **Core Concepts**: Data Structures and Algorithms, Multithreaded Programming, Test Automation, Operating System and Computer Networks, Statistical Modeling.
- ➔ **Tools & Methodologies**: Git and Github , Software Testing, Software Implementation, Approach Development.
- ➔ **Development Skills**: AJAX, JavaScript, HTML, CSS, JSP(Java Server Pages), and Servlets.
- ➔ **Data Analytics**: Power BI, Excel, and Automation tools.

Education

VIT Bhopal University (Expected May 2026)   Bhopal, Madhya Pradesh
BTech Major in Computer Science and Engineering

City Montessori School   Lucknow,Uttar Pradesh
ICSE(Council for Indian School Certificate Examinations)

Projects

Disease Prediction

- ➔ Developed a predictive model with 93% accuracy, leveraging Support Vector Machine (SVM), Gaussian Naïve Bayes, and Random Forest.
- ➔ Implemented K-Fold cross-validation (K=10) to enhance generalization, reducing overfitting and improving real-world applicability.
- ➔ Built an automated data pipeline to handle 10,000+ patient records, including missing value imputation and feature scaling.
- ➔ Conducted systematic user feedback collection from 50+ medical professionals, leading to iterative refinements that improved overall model usability by 25% and expedited the diagnostic process.

Technologies Used: Python, Scikit-Learn, Pandas, NumPy.

Job Portal Website

- ➔ Integrated resume analytics, allowing users to track views and application status, boosting successful applications by 25%.
- ➔ Architected and developed a scalable web application with key features like Resume Builder, job search, and application tracking, improving user retention by 40% through a responsive front-end.
- ➔ Optimized database queries and asynchronous request handling, reducing load time by 30% and enhancing system efficiency.

Technologies Used: Java, JSP, Servlets, HTML, CSS, MySQL, AJAX, and JavaScript.

Data-Driven Insights for Hotel Management Optimization (Dec 2024 - Jan 2025)

- ➔ Performed exploratory data analysis (EDA) on hotel management datasets to uncover trends, optimize revenue, and enhance customer satisfaction.
- ➔ Automated data preprocessing using Python (Pandas, NumPy) and SQL, reducing manual effort and improving data accuracy by 99%.
- ➔ Developed interactive dashboards in Power BI and Excel, enabling real-time insights and 20% faster decision-making for hotel operations.
- ➔ Applied statistical modeling and predictive analytics (Regression, Time Series Forecasting) to improve occupancy forecasting and revenue management.

Technologies Used: Python, Pandas, NumPy, Matplotlib, Seaborn, SQL, Excel and Power Bi.

Certifications

- ➜ Bits and Bytes of computer networking By coursera: Completed with a score of 98%**.**
- ➜ Cloud Computing: Earned certification from IIT Kharagpur, ranking in the top 2%.
- ➜ Vityarthi Python Essentials Certificate.
- ➜ Certificate of Completion in Spring and SpringBoot February 2024.
- ➜ Certificate of Completion in Advance Java, October 2023.