

# NEERAJ SHARMA

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## EDUCATION

### I.KGujral Punjab Technical University, Kapurthala

B.Tech in Computer Science and Engineering

2022 - 26

9.0 CGPA

## EXPERIENCE

### Pisoft Pvt. Ltd.

#### Data Analytics Intern

OnSite  
20 Sep 2025 - 6 Oct 2025

- Collected and cleaned large-scale Blink-it delivery and sales data using **Python** (*Pandas, NumPy*) for accurate analysis and reporting
- Performed **Exploratory Data Analysis** to identify patterns in delivery times, customer behavior, and product demand across locations.
- Built predictive models using **Machine Learning algorithms** (*Scikit-learn*) to forecast delivery demand and optimize resource allocation.
- Created interactive dashboards using **PowerBI** and **Matplotlib** to visualize key performance metrics like delivery efficiency and customer satisfaction trends.

### Hoping Minds Pvt. Ltd.

#### Machine Learning Intern

OnSite  
1 June 2024 - 15 July 2024

- Architected and deployed a **Customer segmentation** platform utilizing scalable RESTful APIs to streamline data retrieval and processing for analysis.
- Engineered and implemented advanced clustering algorithms, including **K-Means and Hierarchical Clustering**, to partition the customer base into distinct, homogeneous groups based on key attributes.
- Developed an interactive analytics dashboard, leveraging data visualization techniques like scatter plots and heatmaps, to intuitively present segmentation results and key characteristics of each group.

## PROJECTS

### Girl's safety Model

- Designed and built an *SOS alert system* using **Arduino**, enabling real-time distress signaling through integrated sensors and wireless communication modules.
- Programmed microcontroller logic in C/C++ to detect emergency triggers and automatically dispatch alerts via **GSM or IOT-based** messaging.
- Developed a compact prototype integrating **LEDs, buzzers, and GPS** modules to provide both visual and location-based emergency notifications for rapid response.

### Breast Cancer Detection

- Developed a Machine Learning model to **detect and classify breast cancer** as malignant or benign using the Breast Cancer Wisconsin dataset.
- Performed *data preprocessing, feature selection, and model training* using algorithms like **Logistic Regression**, SVM, and Random Forest to achieve high prediction accuracy.
- Visualized key insights and model performance using **Matplotlib and Seaborn**, enabling better understanding of critical diagnostic features.

### Banking Insights Analytics

- Engineered a comprehensive data analysis pipeline using **Python** (*Pandas, NumPy*) for data processing and **SQL** for efficient database querying and extraction, **ensuring robust data integrity**.
- Developed interactive *Power BI dashboards* with **advanced DAX queries** to transform complex data into actionable visualizations and key performance metrics.
- Delivered clear, actionable business intelligence reports that **synthesized analytical** findings to directly inform and drive strategic decision-making.

## TECHNICAL SKILLS AND INTERESTS

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

**Frameworks/Libraries:** React.js, Beautiful Soup, Flask, Figma, Scikit-learn

**Database:** MongoDB, MySQL, Firebase, Vercel

**Tools:** Git, Postman, Jupyter Notebook, Streamlit, Docker, PowerBI Desktop

**Design:** Tailwind CSS, Bootstrap, Canva, MS Excel

**Core Data skills:** AI/ML, Data Cleaning, Feature Engineering, Business Insights, Arduino Sensors

## POSITION OF RESPONSIBILITY

- **TechnoVerse** - President IKGPTU Coding Zone
- **GDSC IKGPTU** - Web Development Core Team Member
- **Student Coordinator** - Training and Placement cell Student Coordinator

June 2024 - Present

Aug 2023 - Aug 2024

Aug 2023 - July 2024