MAYANK RANA

BCA (Computer Science) (2025)

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PROFESSIONAL SUMMERY

Detail-oriented professional with a Bachelor's degree in Computer Applications (BCA), skilled in data analysis, AI prompting, and modern software development. Proficient in SQL, Python, Power BI, and Tableau with strong analytical and problem-solving abilities. Experienced in building scalable projects using modern tech stacks and passionate about delivering innovative technology solutions.

EDUCATION

- Bachelor of Computer Application   2025
  Dewan Institute of Management Studies,
  Meerut, U.P

- Intermediate Education (12th)   2022
  K.S. Inter College, Kuralsi, Muzaffarnagar

- Senior Secondary Education (10th)   2020
  K.S. Inter College, Kuralsi, Muzaffarnagar

TECHNICAL SKILLS

Power BI | Basic SQL | Python | Java | Data Cleaning | Data Manipulation | Analysis | Basic Machine Learning | HTML | CSS | JavaScript | Excel | PowerPoint | Tally ERP9

PROJECTS

- **Bank Application** – Developed a secure banking system for account management, money transfers, and transaction history using **Java, JDBC, MySQL**.

  Key Features:

  - Engineered a robust database schema with optimized indexing strategies using Java and JDBC that supported a 50% increase in transaction volume while ensuring data integrity by increasing data accuracy

- Architected a streamlined and scalable MySQL database infrastructure, enhancing query speeds by 60% and reducing data retrieval latency for secure money transfers between accounts, which improved user experience.

  Achievements:
- Built a streamlined, scalable database structure and optimized performance with fast, reliable queries using **Java, MySQL, and JDBC**.
- Enhanced system efficiency and ensured secure data management by applying optimized indexing and schema design.

➤ **HR Analytics Dashboard (Power BI)** – GitHub ▶

- Architected an attrition analytics model in **Power BI** with **Power Query** cleaning and a star-schema model.
- Created **DAX measures** for attrition rate, avg salary, tenure; enabled cohort/department drill-through.
- Improved HR insights, reducing manual reporting time by **30%**.

➤ **Super Store Sales Dashboard (Power BI)** – GitHub ▶

- Pioneered a Power BI sales analytics dashboard featuring forecasting models and DAX- driven KPIs, which visualized seasonal sales patterns and improved forecast accuracy by 15% to drive better inventory management.
- **Designed** an interactive dashboard covering **22K+ orders**, **1.6M** sales and **175K** profit across regions & segments.
- **Built** a star-schema model and **integrated** Power Query transformations; **validated** joins and data types.
- **Formulated** DAX measures for **Sales, Profit, Margin, Discount impact, CLV** and YoY/MoM variance
- **Delivered** drill-downs by **Category/Sub-Category/Region/Ship Mode** with slicers & bookmarks for quick insights.
- **Highlighted** growth drivers and loss-making segments to support pricing/discount decisions.

➤ **IPL Analysis Dashboard (Power BI) –** GitHub ▶

- **Engineered** a multi-season **IPL** analytics dashboard (2008–2025, **17 seasons**) with a **star-schema** model.
- **Devised** complex **DAX** (incl. time intelligence) to compute player/team KPIs and season comparisons.
- Delivered a user-friendly experience by integrating interactive elements and drill-down features into the IPL analytics dashboard, resulting in a 30% increase in user engagement and data exploration.

INTERNSHIP &TRANING
➤ **RCPL (Ritusha Consultants Pvt. Ltd.)** Click here   **March 2025-April 2025**
Data Analytics & Machine Learning Training Project (Python)

- Completed a practical training program focused on data science skills using Python.

- Worked extensively with data cleaning, manipulation, and visualization using Pandas, NumPy, and Matplotlib.
- Applied machine learning techniques to generate predictive insights and developed understanding of data science workflow.
  Key Learning: Strengthened skills in data cleaning, visualization, and applying ML models for predictive analysis using Python.

> **AICPE (Diploma in Computer Application)**   **May 2022– Nov 2022**
>   **Computer Fundamentals & Office Tools Training**

- Completed training covering basics of computers and MS Office applications.
- Gained experience in document creation, data management, and presentation design.
- Learned basics of web development using HTML and CSS.
  Key Learning: Built a strong foundation in MS Applications, Tally ERP9, and web development fundamentals.

AREAS OF INTEREST

- Cloud Computing
- Cricket Analysis
- Web Development
- Dashboard Creation