

# Esha Kumari

Data Analyst

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Esha133

## Summary

Data Analyst with hands-on experience in machine learning, data preprocessing, and visualization. Proficient in Python, SQL, and Power BI, with a strong foundation in generative AI and database management. Skilled in developing predictive models and creating interactive dashboards to drive data-driven decision-making.

## Experience

April 2024 – May 2024

**ML Intern** • [\[certificate\]](#) • [\[project\]](#)

Ardent Computech Pvt. Ltd. • Kolkata, West Bengal

- Designed and optimized machine learning models using Python and TensorFlow.
- Improved prediction accuracy by 95% through hyperparameter tuning and feature engineering.
- Reduced model training time by 20%, enhancing scalability and efficiency.
- Processed unstructured text data using NLP techniques like tokenization, stemming, and lemmatization.
- Built a sentiment analysis model with 90% accuracy using NLTK and spaCy.
- Identified and resolved three major product defects, improving customer satisfaction by 15%.

## Projects

**Library Management System**

January 2024 – July 2024

Major Project, B.S City College

- Optimized system performance by implementing efficient SQL queries, reducing book retrieval time by 10%.
- Designed a user-friendly interface using Angular, enhancing the borrowing and return process for users.

Source code – [github](#)

**Diabetes Prediction using Machine Learning**

May 2024

Ardent Computech Pvt. Ltd.

- Implemented and fine-tuned a machine learning model to predict diabetes risk, achieving 5% accuracy and improving early detection capabilities.

Source code – [github](#)

## Certifications

**Introduction to Java** • [\[certificate\]](#)

July 2025

Coursera

- Built a solid base in Java programming, covering object-oriented principles, control structures, and application logic development.

**Generative AI Foundations** • [\[certificate\]](#)

February 2025

Coursera

- Developed foundational understanding of generative AI, including core models, prompt techniques, and practical implementations across industries.

**MySQL with Information Technology** • [\[certificate\]](#)

January 2025

Coursera

- Gained practical knowledge in MySQL, focusing on database structuring, SQL operations, and data handling within IT systems.

### Power BI Job Simulation • [\[certificate\]](#)

January 2025

#### Forage

- Completed the "Power BI Job Simulation", gaining hands-on experience in data modelling, report creation, and interactive dashboard development for business insights.

### Data Visualisation [\[certificate\]](#)

December 2024

#### Forage

- Achieved the "Data Visualization: Empowering Business with Effective Insights" certification, gaining expertise in designing interactive dashboards and visualizations to support data-driven decision-making and business strategy.

## Education

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### Manipal University, Jaipur

2024 – Present

Programme – Master of Computer Application (MCA)

Location – Jaipur, Rajasthan

### BS City Collage • [\[marksheet\]](#)

2021 – 2024

Programme – Bachelor of Computer Application (BCA)

Location – Bokaro, Jharkhand

Grade – 7.91 CGPA

## Technical Skills

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- **Programming Languages** – C, C++, Python, Java
- **Databases:** My SQL
- **Tools:** Git, Visual Studio, VS Code
- **Libraries:** pandas, NumPy, matplotlib