NEELESH SINGH

Data Analyst | B.Tech Computer Technology (AI Specialization)
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Professional Summary

Highly skilled Data Analyst with expertise in data cleaning, visualization, statistical analysis, and machine learning. Proficient in tools like SQL, Python, Power BI, and Scikit-learn to extract insights and support data-driven decision-making. Dedicated to optimizing processes and delivering actionable data insights and solutions.

Education

Institute of Advance Computing, Sage University Indore, Madhya Pradesh   **2026**
- B.Tech Computer Technology (Artificial Intelligence) | CGPA : **8.06**
  Relevant Courses : Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, NLP

Gurukul Public Higher secondary School Burhanpur Madhya Pradesh   **2021**
- MP Board (Class XII), Aggregate : **85.2%**

Skills

- **Languages :** Python, SQL, R, Scala
- **Libraries & Frameworks :** Pandas, Numpy, Scikit-Learn, Matplotlib, TensorFlow, PyTorch, XGBoost, LightGBM,
- **Tools :** Power BI, Excel, PowerPoint, MySQL, Flask / FastAPI
- **Platforms :** Jupyter Notebook, Visual Studio Code, Google Colab

Internships & Experience

Python developer Intern
Code Alpha | 25 Sep - 25 Dec 2024 (Virtual)
- **Developed** "Jarvis," a voice assistant application, streamlining task automation for activities like music playback, real-time information retrieval, and reminders.
- **Implemented** advanced NLP techniques, improving command recognition accuracy by 25% and enhancing user experience.
- **Integrated** APIs (e.g., Gemini API, News API) to expand functionality, reducing task execution time by 30%.
- **Optimized** Python code for performance, ensuring seamless and reliable application execution.

Data Science Intern
Bharat Intern | 10 Aug – 10 Sep 2024 (Virtual)
- **Developed** Python-based solutions for data preprocessing, feature engineering, and exploratory data analysis, streamlining data workflows by 20%.
- **Implemented** model validation techniques, increasing prediction reliability and ensuring robust machine learning performance.
- **Optimized** machine learning models through hyperparameter tuning, improving accuracy by 15% and enhancing computational efficiency.
- **Utilized** Python libraries (Pandas, NumPy, Scikit-learn) to conduct in-depth analyses, deriving actionable insights from complex datasets.

Highlighted Projects

- **Airline Dataset Analysis**
  - Conducted comprehensive data analysis to identify patterns in flight delays, passenger demographics, and route performance.
  - Utilized Python for data cleaning, SQL for querying large datasets, and Tableau for creating interactive visualizations.
  - Delivered actionable insights that contributed to operational decision-making and process optimization.
  - **Key Tools:** Python, SQL, Data Cleaning, Statistical Analysis.

- **Ecommerce Sales Dashboard Using Power BI**
  - Developed an interactive Power BI dashboard integrating multiple data sources to monitor sales trends, customer demographics, and product performance.
  - Enhanced data reporting efficiency, enabling quicker decision-making for sales strategy and inventory management.
  - **Key Tools:** Power BI, Data Visualization, Sales Analysis.

- **Titanic Dataset Analysis Using Python**
  - Performed in-depth data analysis to explore survival patterns based on key variables like age, gender, and class.
  - Applied Python libraries (Pandas, NumPy) for data preprocessing and statistical analysis.
  - Used visualization tools like Matplotlib and Seaborn to create comprehensive graphs and charts, highlighting key trends and insights.
  - **Key Tools & Techniques:** Python, Pandas, NumPy, Matplotlib, Seaborn, Data Cleaning, Feature Engineering, Statistical Analysis.

Achievements

- **Vice Chair** of IEEE Student Branch at Sage University Indore 2024-2025.
- Presented a research paper at **IEEE ICPS-ITI-AGS-2023**, focusing on innovative AI-based solution for smart education systems.
- Research paper published on **AI BASED SMART EDUCATION ENHANCED THE LEARNING OF STUDENTS** in IEEE Xplore.
- Chapter published on **TACKING THE COMPLEXITIES OF FEDERATED LEARNING** in the Book Generative AI for Biomedical and Smart Health Informatics.
- Chapter published on **ARIFICIAL INTELLIGENCE AND MACHINE LEARNING IN MARKETING** in the Book Decoding Consumer Behavior Using the Insight Equation and AI Marketing.

Certifications

- **Python for Data Science** (IIT Madras, NPTEL)
- **Introduction to Machine Learning** (IIIT Delhi, NPTEL)
- **Boot Camp 4.0 on Next-Gen UAS: Harnessing AI/ML** (IIT Indore).
- **Innovation & Leadership in Artificial Intelligence** (IIT Indore)
- **Cloud Computing** (AWS Academy)
- **Machine Learning Foundations** (AWS Academy)
- **Data Engineering** (AWS Academy)
- **Introduction to Generative AI** (Google)
- **Microsoft Azure AI** (Microsoft)