

# Abhilasha Jain

Boston, MA (**Open to Relocation**) | [abhilasha1125jain@gmail.com](mailto:abhilasha1125jain@gmail.com) | (617) 331-5768 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## SUMMARY

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Innovative Data Scientist and Machine Learning Engineer with over 5 years of experience developing AI-driven solutions for complex business problems. Expertise in leveraging advanced machine learning techniques, generative AI, and data visualization to create impactful and scalable products.

## PROFESSIONAL EXPERIENCE

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**Volunteer Data Analyst**, *House of Inspiration, India (Remote)* Feb 2024 – Present

- Applied advanced machine learning techniques, including large language models (LLMs) and generative AI, to develop predictive models for customer behavior analysis and product recommendation, resulting in a 20% increase in sales
- Designed and implemented NLP algorithms to extract insights from unstructured text data, leading to improved decision-making processes
- Utilized SQL for data querying, manipulation, and analysis, leading to improved data-driven strategies

**AI/ML Engineer Intern**, *SPG America, Piscataway, NJ (Remote)* Jul 2023 – Present

- Developed internal tools using OCR, NER, and Prompt Engineering, reducing manual labour by 73% and time consumption by 65%. Fine-tuned various open-source LLMs and developed ETL pipelines with Azure
- Implemented scalable machine learning models for seamless integration into existing workflows, driving efficiency and accuracy
- Built a Python-based tool for automating data annotation tasks, increasing efficiency by 30% & reducing errors

**Project Developer**, *Freelancer, India (Remote)* Aug 2019 – Aug 2021

- Developed and optimized live video streaming pipelines using ffmpeg, improving performance by 25%
- Initiated and developed a multi-patient ventilator valve during the COVID pandemic, aiding ventilator shortage
- Applied advanced algorithms to enhance web-based interfaces and develop innovative solutions
- Built appointment scheduling website, streamlining service provider operations, and enhancing customer experience

**Data Scientist, Product Manager**, *WEOrg, India* Sep 2016 – Jul 2019

- Led Google Cloud-based patient monitoring, resulting in a 40% faster response rate and emergency alerts
- Conducted analytics using machine learning and advanced statistics to support patient journey analysis and healthcare ecosystem interactions
- Collaborated with stakeholders to deliver actionable insights & reports for business decision-making processes
- Managed projects from initiation to completion, ensuring ethics & compliance guidelines were consistently met

## TECHNICAL SKILLS

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- **Programming Languages:** Python, SQL, R, MATLAB, C, C++
- **Machine Learning:** Regression, Classification, Clustering, Feature Selection, Gen AI, Computer Vision
- **Packages:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, PyTorch, Keras
- **Other Tools:** Git, NoSQL, Tableau, PowerBI, AWS, Google Cloud, Azure, Docker, Kubernetes, Streamlit

## EDUCATION

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**Master of Science in Applied Mathematics - Data Science**, *Northeastern University, Boston, MA* May 2023

**Bachelor of Technology in Biomedical Engineering**, *D.Y. Patil University, Mumbai, India* June 2019