

Abhilasha Jain

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Available Immediately | Open to Relocation

SUMMARY

Accomplished Data Scientist with **3+ years** of experience in leading cross-functional teams to design, build, and deploy ML/NLP models and services. Proficient in Python, SQL, and various machine learning, Computer Vision, and NLP techniques with a strong track record of delivering data-driven solutions to complex business problems.

WORK EXPERIENCE

AI/ML Intern, SPG America, Piscataway, NJ Jul 2023 – Present

- Developed Python & SQL ETL pipeline, automating data processing and improved **precision by 25%**.
- Enhanced **customer satisfaction by 13%** through implementation of a DL-powered Online Price Negotiator chatbot.
- Optimized expense tracking **accuracy by 12%** by creating a shopping bill parser using OCR, NER, and LILT Model.
- Improved traffic efficiency & safety with Computer Vision by developing AI – powered algorithm for traffic management.

Data Science Researcher, Northeastern University, Boston, MA Feb 2022 – Jun 2023

- Credit Card Fraud Detection using Transaction Data: Enhanced security & trust by contributing to Machine Learning solutions for Fraud Detection. Assisted in data preprocessing & optimization to improve fraud detection accuracy.
- Data Modeling for Bitcoin Price Prediction: Developed a Bitcoin price prediction model using Markov Chains and validated the model using Goodness of Fit test.
- Prudential Life Insurance Risk Prediction: Supported client risk assessment by applying linear algebra techniques and achieved 98% accuracy.
- E-Commerce Reviews Sentiment Analysis: Collaborated on sentiment analysis of E-Commerce Reviews using NLP techniques, to enhance customer satisfaction and loyalty.

Data Science Researcher, Zeta Surgical, Boston, MA Nov 2021 – Dec 2021

- Reduced **75% of misdiagnoses** by integrating Machine Learning algorithms into surgical equipment.
- Supported the training of CNN and U-Net models for precise CT Scan hemorrhage with **accuracy of 63% and 92%** for classification and segmentation respectively.

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

- Spearheaded Google Cloud-based patient monitoring, resulting in a **40% faster response rate** and real-time emergency alerts using ARM KL57z, GSM and ESP.
- Elevated **25% healthcare efficiency** by designing and supervising the implementation of a Raspberry Pi-Python gamified device through real-time data collection.
- Achieved **20% increase** in early detection of Diabetic Retinopathy by deploying a CNN-based model on fundus images.
- **Increased sales by 41%** through the creation of an innovative product that gained market share in the industry.
- Mentored and guided team members, fostering a collaborative and innovative work environment.
- Led cross-functional teams in the development and deployment of data-driven solutions.

Machine Learning Engineer Intern, IIT – Bombay, India Aug 2018 – May 2019

- Deployed Flask based Rest API for real time ML workflow, reducing model deployment **time by 30%**.
- Implemented Random Forest based- predictive algorithms, improving **accuracy by 20%** in heart attack predictions.
- Communicated insights for the development of Medical Devices by performing **Market & Risk Analysis** of Stroke and Heart-Attack.

TECHNICAL SKILLS

Languages: Python, SQL, R, C/C++, MATLAB, SAS, PyTorch, Tensorflow, Keras, OpenCV, NLTK, ITK, Unix/Linux

Database/Tools: Excel, Tableau, Power BI, Pandas, Numpy, Scikit, SQL Server, NoSQL, Git

Statistics: A/B Testing, Causal Inference, Multivariate Testing, Non-Parametric tests, Survival Analysis, Probability, RNA Sequential Analysis, Bayesian Inference, Markov Chain, Monte Carlo Simulation

Machine Learning: Regression, Clustering, Classification, Neural Network, Statistical Modeling, SVMs, Naive Bayes, Ensemble Models, PCA, Computer Vision, ML Ops, NLP, OCR, Object Detection, DL, Digital Image and Signal Processing

Parallel Processing: ETL, Google Cloud Platform(GCP), Amazon Web Services (AWS), High Performance Computing (HPC)

EDUCATION

Northeastern University, Boston, MA Sep 2021 – May 2023

Master of Science in Applied Mathematics - Data Science Track, **GPA: 3.5**

D.Y. Patil University, Navi Mumbai, India Jul 2015 – Jun 2019

Bachelor of Technology in Biomedical Engineering, **GPA: 3.33**