

VIBHAV MISRA

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems

New York City, NY

Master of Science (MS) in Data Science | **Concentration:** Data Science and Analytics

May 2026

Chandigarh University, Apex Institute of Technology

India

Bachelor of Engineering (BE) in Computer Science with a specialization in Artificial Intelligence and Machine Learning

June 2024

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, SAS

Machine Learning & AI: Supervised & Unsupervised Learning, Neural Networks, PCA, Clustering, KNN, LSTM, Time Series Forecasting

Data Science & Analytics Tools: Pandas, NumPy, Scikit-Learn, TensorFlow, Prophet, Keras, Jupyter Notebooks, Apache Spark, Databricks, Git/GitHub, Anaconda

Big Data & Databases: MySQL, NoSQL (MongoDB, HBase), Hadoop File System (HDFS), MapReduce

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Excel

Additional Skills: Data Mining, Statistical Analysis (Hypothesis Testing, Regression), Data Processing (EDA, Data Cleaning)

VIRTUAL WORK EXPERIENCE

British Airways Data Science Job Simulation

Forage - November 2024

- Scraped and analyzed over 1,000 customer reviews using sentiment analysis techniques to uncover key insights, with 62.2% of reviews being positive and common themes centered around service, flight delays, and amenities.
- Built a predictive model using Random Forest to identify key factors influencing booking completion, achieving an accuracy of 85%.

ACADEMIC PROJECTS

AskVibhav - Resume Chatbot

March 2025

- Developed a GPT-powered chatbot trained on my resume to answer questions about my background and skills in natural language.
- Used Groq's Llama3-8b-8192 LLM via API, with a backend deployed on Vercel and a custom frontend built using HTML and CSS.
- Designed a structured JSON resume format, optimized prompts, resolved deployment issues, and integrated the chatbot into my portfolio at vibhavmisra.com.

BioML

January 2024 - April 2024

- Developed a machine learning web application using Python and Flask to predict diseases based on user-input symptoms, achieving 90% accuracy on validation data.
- Led a team of four to build a responsive user interface using HTML, CSS, and JavaScript, integrating a predictive model utilizing Python, NumPy, and Scikit-Learn with 133 key symptom features.
- Deployed the application on GitHub, enabling real-time disease prediction.

Detecting Phishing Websites using Machine Learning

August 2023 – November 2023

- Built a Flask-based web application to detect phishing websites achieving an accuracy score of 85% with Gradient Boosting.
- Engineered over 30 features (e.g., URL length, domain age, HTTPS usage) to enhance model performance and designed a real-time interface for risk prediction and conducted comprehensive research on different machine learning models (SVM, Random Forest, Logistic Regression) to determine the most effective algorithm for phishing detection.

CERTIFICATIONS

- Mathematics for Machine Learning and Data Science Specialization** (Linear Algebra for Machine Learning and Data Science, Calculus for Machine Learning and Data Science, Probability & Statistics for Machine Learning & Data Science) **Coursera – October 2023**
- Natural Language Processing Specialization** (NLP with Classification and Vector Spaces, NLP with Probabilistic Models, NLP with Sequence Models, NLP with Attention Models) **Coursera – May 2023**
- Applied Data Science Specialization** (Python for Data Science, AI & Development, Python Project for Data Science, Applied Data Science Capstone, Data Visualization with Python, Data Analysis with Python) **Coursera – July 2022**

ACADEMIC ACHIEVEMENTS

- Part of the pilot batch for the online BSc Degree in Programming and Data Science offered by Indian Institute of Technology Madras.
- Completed the 8 Foundational Level Courses (32 credits) and earned a Foundational Certificate from CODE, IIT Madras.
- Progressed through Diploma Level courses – Including: Machine Learning Foundations, Business Data Management, Machine Learning Techniques, Business Analytics and Tools in Data Science. Transitioned to Master's program in the USA before completing the Diploma Level.

LANGUAGES

English (Fluent), Hindi (Native)