

AFTAB SHAIKH

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EDUCATION

Northeastern University, Portland, Maine

Sept 2024-Dec 2026

Khoury College of Computer Sciences

GPA - 3.5/4

Master of Science in Artificial Intelligence

Related Courses : Algorithms, Machine Learning, Natural Language Processing, Human Computer Interaction

University of Mumbai, Mumbai, India

Jun 2020 - May 2024

Rizvi College of Engineering

CGPA - 8.4/10

Bachelors of Engineering in Computer Engineering (Honours in Cybersecurity)

Related Courses : Data Structures, Deep Learning, Software Engineering, Internet of Things

SKILLS

Programming Languages : Python, C, SQL, Javascript, DART

Cloud Platforms : AWS (EC2, S3, Lambda), Google Cloud Platforms (BigQuery, Vertex AI)

Libraries/Frameworks : Machine Learning : NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, NLTK

Web Development : Django, Flask, React, Node.js, Bootstrap, jQuery, BeautifulSoup

Certifications : Python (Udemy), DSA @ Python (Udemy), AI in Workplace (Northeastern University),

AWS Foundation (AWS), HTML & CSS (OpenWeaver) , Flutter (Udemy)

WORK EXPERIENCE

SYNC'S Intern, Mumbai, India

Jul-Aug 2023

Python Developer Intern

- Built an automated web scraping script using BeautifulSoup and Selenium to extract and monitor competitor pricing data, enabling strategic decision-making for the business.
- Conducted code reviews and optimized existing Python scripts, improving performance by 20% and ensuring adherence to best practices.
- Collaborated with cross-functional teams to define project requirements and deliver solutions within strict deadlines, showcasing strong communication and time management skills.

Edu4Maharashtra, Mumbai, India

Aug-Oct 2023

Data Analyst Intern

- Analyzed student performance data from over 10,000 records using Python (Pandas, NumPy) and SQL, identifying key factors influencing academic success.
- Automated data cleaning and preprocessing pipelines, reducing data preparation time by 40%, ensuring consistent and reliable datasets for analysis.
- Adapted quickly to new datasets and shifting priorities by working closely with team leads to refine objectives, showing adaptability and problem-solving.

PROJECTS

Customer Segmentation using Machine Learning

Feb 2025

- Conducted a segmentation project for the retail/e-commerce domain, analyzing the purchasing behavior of 4,338 customers to support targeted marketing and personalization strategies.
- Applied K-Means, DBSCAN, and Hierarchical Clustering with PCA, reducing dimensionality by 68% and improving model interpretability; achieved a Silhouette Score of 0.87 and Davies-Bouldin Index of 0.36.
- Enhanced cluster quality by handling key outliers and demonstrated strong time management and communication while coordinating updates and deliverables with my professors.

Sentiment Analysis of IMDb Reviews

Nov 2024

- Developed a sentiment classification system to analyze 50,000+ IMDb movie reviews, aimed at enhancing content recommendation through audience sentiment understanding.
- Compared five ML models including SVM and Naïve Bayes, with SVM achieving 87.6% accuracy; visualized performance using precision, recall, and F1-score comparisons.
- Documented the full pipeline on GitHub, showcasing expertise in data preprocessing, TF-IDF feature extraction, and model evaluation.