

SAUMYA SINGH

saumyasingh2023@u.northwestern.edu | +1(908)8641407 | Evanston, IL, United States

[Portfolio](#) | [Linkedin](#) | [Github](#)

EDUCATION

NORTHWESTERN UNIVERSITY | United States

September 2021 - December 2022

Masters of Science in Artificial Intelligence

- *Teaching Assistant in AI/ML for MBAi 448 (Winter Quarter)*
- *Relevant Coursework: Intro to AI, Machine Learning, Data Science Seminar, Frameworks of AI, Deep Learning, Human-Computer Interaction, Natural Language Processing, and Knowledge Representation and Reasoning.*

FEROZE GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY | India

August 2016 - September 2020

Bachelor of Technology, Computer Science

CGPA 9.1 / 10

- *Relevant Coursework: Operating System, Data Structures, Natural Language Processing, Database Management System*
 - *Secured the 2nd prize in Web-bit twice (2nd year and third year), and web development competition, and stood 3rd in the InterZonal Coding Competition.*
-

EXPERIENCE

Amazon, Hyderabad, India | Cloud Engineer

March 2021 – August 2021

- Helped customers use AWS services such as Lambda, API Gateway, Amplify, AppSync, SNS, and Connect.
- Collaborated with the team and developed a Serverless web application portal where the 250+ local employees can view and update their leave information.
- TechStack: React, NodeJS, DynamoDB, S3, CloudFront, Cognito, Lambda, API Gateway, AWS Amplify

Euprime, Bengaluru, India | AI Intern

October 2020 – January 2021

- Built machine learning models based on inbuilt algorithms to provide healthcare solutions and increased accuracy by 4%.
- Lead a team of 4 people to develop machine learning models for Healthcare problems like heart rate and blood pressure by analyzing the facial features of 0.7 Million health records.

Verzeo Online Internship, India | Intern

February 2020 - May 2020

- Researched different concepts like Natural Language Processing and Neural Networks for chatbot development.
-

PROJECTS

Diagnostic facial recognition project | Northwestern University, IL

November 2021- Present

- Collaborating with fellow researchers and developers to develop a vision product for earlier diagnosis of CCHS and apnea among premature infants.

Invisible Institute's Citizen Police Data Project | Northwestern University, IL

September 2021- December 2021

- Partnered with the Invisible Institute to glean insights from Chicago Police Department data.
- Implemented PostgreSQL for database management, Trifacta for data integration/cleaning, Tableau and D3.js for visualizations, Scikit-Learn for logistic regression, and NLTK for NLP sentiment analysis on the summaries of complaint reports and Tactical Response Report.

Sign Language Translator | Northwestern University, IL

September 2021- Present

- Developed an American Sign Language translator with a maximum accuracy of 96% using several ML algorithms such as Neural Network(95.8%), Random Forests(95.0%), SVM(90.8%), KNN(79.7%), and Multinomial Logistic Regression(78.1%), and Naive Bayes(61.7%) on the Leap Motion Controller ASL dataset.

Face Based Attendance Project | AKTU University, Lucknow, India

January 2020– March 2020

- Developed an attendance system that utilizes facial recognition to mark the presence of students.
 - Built a linear SVM Classifier using OpenCV, face recognition, and Django to achieve an accuracy of 82%.
-

PUBLICATION

Stability in Differential Equations- Mathematics Research paper published at International Journal of Scientific and Engineering Research (IJSER) in Volume 11, Issue 10 2020 Edition. Issn- 2229 5518.

The paper uses the diagonal matrices to calculate solutions for first-order ordinary differential equations by using eigenvalues and eigenvectors. The benefit in this approach is reduced manual calculations compared to the initial solution

TECHNICAL SKILLS

Languages: Java, Python, C++,C, R, HTML, CSS, JavaScript, SQL

Machine Learning: Scikit-learn, NumPy, Pandas, Matplotlib, TensorFlow, PyTorch | **Data Science:** NLTK, Spacy

Tools and Technologies: Anaconda, Eclipse, Git, PostgreSQL

LEADERSHIP AND AWARDS

- Co-functioning of a startup “**Junior Master**” a platform to introduce students to python, machine learning, and artificial intelligence at an early age. Created the website using HTML, CSS, and Bootstrap.
- Selected in the top 1% for the coding round of Amazon Development Centre, India(Top 8 from 35,000+ participants).
- Campus Ambassador of P-Tech program, conducted several AI and Machine Learning Workshops across the country.