



# Rahim Khan

Roll Number : 222123040

MSc. - Mathematics & Computing

Indian Institute of Technology Guwahati

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[LinkedIn](#) | [Github](#)

[Portfolio](#) | [kaggle](#) | [Leetcode](#)

## Education

Degree / Certificate	Institute / Board	CGPA/Percentage	Year
MSc	Indian Institute of Technology, Guwahati	7.30 (Current)	2022 - Present
Bachelor of Science	Indira Gandhi National Open University, New Delhi	71.21%	2019-2021
Intermediate	UP Board	85.0%	2015
Highschool	UP Board	83.67%	2013

## Projects

- **AI Image Classifier** June-July 2023  
[Github](#) [Website](#)  
*by coding club IITG in Even Semester Programme.*
  - ✓ Classifies Images as Real or AI Generated.
  - ✓ Implemented CNN architecture VGG16 Trained on imagenet.
  - ✓ Deep Learning Libraries used for the purpose : **Tensorflow, Keras.**
  - ✓ Deployed on streamlit.
- **Stock Price Prediction** July 2023  
[Github](#) [Website](#)  
*self Project*
  - ✓ **ARIMA Model**:- the application utilizes the ARIMA Model, to predict the future data based on the past data.
  - ✓ **Interactive Web Interface**:- the application provides the web based interface built with Django. it fetches last 100 days data from alpha vantage api and train the model on last 70 days then predict the prices for next 31 days.
  - ✓ **Visualizations**:- the predicted stock values are visualized using chart.js.
  - ✓ It can predicts the prices for over 11000+ companies. It is deployed on azure.
  - ✓ Machine Learning Libraries used for the purpose : **Statesmodels,scikit-learn**
- **Automatic Number Plate Detector** Aug. 2023  
[Github](#)  
*self Project.*
  - ✓ Creates a Bounding Box on the Number Plate then extract the text from image using EasyOCR.
  - ✓ Implemented YOLO v5 model using ultralytics library.
  - ✓ Deep Learning Libraries used for the purpose : **Pytorch, EasyOCR**
  - ✓ Django is used for processing the input from the user and showing the output on the webpage.
- **CodeVerse ( Coding Platform )** Ongoing  
[Github](#)  
*Dr. Kalpesh Kapoor , Department of Mathematics IIT Guwahati, (Team Size:3)*
  - ✓ **Platform Architecture**:- Designed and implemented the architecture of the coding platform using Next.js.
  - ✓ **Multilanguage Support**:- Engineered the platform to support execution of 19 programming languages.
  - ✓ **Database Management**:- Implemented a Robust MySQL Database schema to store user profiles, code snippets.

## Key courses taken

- **Data Science** : PW Skills Data Science Masters Course 1.0\*.
- **Computer Science** : Programming in C, Data Structure & algorithms, Discrete Mathematics, Database Management Systems\*, Theory of Computing\*.
- **Mathematics** : Linear Algebra, Probability Theory, Optimization Techniques, Differential Equations, Numerical Analysis\*.

\* To be completed in Nov 2023

## Technical skills

- **Programming languages** : C,C++, Python, Javascript\*, Matlab\*.
- **Machine Learning & Deep Learning Frameworks** : Scikit-learn, Keras, Tensorflow\*, Statesmodels\*.
- **Other Python Tools** : Numpy, Pandas, Matplotlib, Seaborn, Pillow.
- **Web technologies** : HTML, CSS, Tailwindcss\*,Bootstrap\*, chartjs\* Nextjs, Django,Flask,streamlit.
- **Database management** : MySQL.
- **Operating system** : Windows, Linux

\* Elementary proficiency

## Achievements

- **Joint Admission Test for Masters (2022)** : Secured All India Rank 26 among 13000+ candidates.