Rahim Khan

Roll No.:222123040
MSc- Mathematics and Computing

Indian Institute Of Technology, Guwahati

+91-7627047457
k.rahim@iitg.ac.in
rahimkhan7627047457@gmail.com
Github | Website
linkedin.com/in/rahim-khan-iitg

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
MSc Maths& Computing	Indian Institute of Technology, Guwahati	7.30 (Current)	2022-Present
Bachelor of Science	IGNOU, New Delhi	71.21%	2019-2021
Intermediate	UP Board	87.00%	2015
Highschool	UP Board	83.67%	2013

EXPERIENCE

- **Ordnance Factory Badmal**   *Aug. 2018 - Nov. 2020*
  Apprentice   Balangir, India
  - Designed, developed, and maintained web applications using Flask, a micro web framework in Python, to create scalable and efficient solutions.
  - Built RESTful APIs using Flask, enabling seamless communication between different components of the application and external services.
  - Integrated machine learning models into Flask applications to enhance functionality and provide intelligent insights.

- **The Ananta Pushkar**   *Jan. 2018 - Aug. 2018*
  Job Trainee   Pushkar, India
  - Worked on Wish.Net
  - Maintained and Developed internal website for Guest and Employee management.

- **The Ananta Udaipur**   *Aug 2017 - Jan. 2018*
  Industrial Trainee   Udaipur,India
  - worked on Wish.Net
  - worked on several internal websites to enhance the functionality of existing system using python and flask.

PROJECTS

- **Stock Price Prediction**   *July 2023*
  self Project   Github | website
  - **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 ventage 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**

- **CodeVerse (Coding Plateform)**   *Aug-Nov 2023*
  Dr. Kalpesh Kapoor , Department of Mathematics IIT Guwahati, (Team Size:3)   Github | website
  - **Plateform Architecture:-** Designed and implemented the architecture of the coding platform using Next js.
  - **Multilanguage Support:-** Engineered the platform to support execution of 1 programming languages.
  - **Database Management:-** Implemented a Robust MySQL Database schema to store user profiles, code snippets.

- **Personal Chatbot**   *Nov 2023*
  self   Github | website
  - uses a csv file as a knowledge base.
  - **sentence-transformers/paraphrase-multilingual-mpnet-base-v2** is used as a vector Embedding model.
  - **google/flan-t5-xxl** is used as LLM for inference.
  - **chromadb** and **qdrant** are used as vector storage.
  - **Backend:-** backend is made using flask and deployed on **azure docker container service**
  - **Frontend:-** frontend is made using **Next-js** and deployed on **vercel**.

- **Open Source NeoGPT**   *Dec 2023*
  CodePeak 2023 IITG   Github
  - Added functionality of only LLM mode.
  - Added Functionality of Qdrant support.
  - Added support for QDrant DB.
  - Made several UI enhancement

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 , Natural language Processing with large language models.
- **Mathematics** : Linear Algebra, Probability Theory, Optimization Techniques, Differential Equations, Numerical Analysis.

Technical Skills

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

Achievements

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