

Rishabh Pandey

BIOINFORMATICS · DATA SCIENCE · WEB DEVELOPER

Northeastern University - Boston, Massachusetts, USA

+1 (917) 513-9270 | ✉ pandey.rish@northeastern.edu | 🌐 www.rishabhpandey.xyz | 📱 BrikJunior | 🌐 rishabh-pandey6199

Objective

I aim to land a job as a Data Scientist and I have an inclination towards machine learning and deep learning for visualization and analysis.

Education

Ramaiah University of Applied Sciences

BSc (HONS) BIOTECHNOLOGY

- 8.9/10 CGPA

Bangalore, India

Aug-21

Work Experience

IISc, Bangalore

FULL STACK WEB DEVELOPER - INTERN

- Worked as a Full-stack web developer in Department of Computational and Data Science, Indian Institute of Science, Under Dr. Chirag Jain in ATGC lab using Ruby on Rails framework.
- Self taught and executed Git and website hosting
- Designed and routed the multiple pages along with the database

Bangalore, India

May 2021 - June 2021

Projects

Computational Drug Discovery with CNN using QSAR modelling

FULL STACK DEVELOPER

- Using ChEMBL database developed web app that predicts bio-activity (pIC50) of the target molecule by CNN using QSAR modelling of protein Acetylcholinesterase
- Canonical smiles notations was used to calculate Lipinski descriptors, used in the interpretation of drug likeness of the compounds based on their pharmacokinetic profile that is absorption, distribution, metabolism, and excretion
- [Github link for the project](#)

Bangalore, India

May 2021 - Jul 2021

CF-CAP

DATA SCIENTIST AND FRONT-END DEVELOPER

- CF-CAP stands for Computational Flu or COVID-19 Anticipator and Precrber which also provides first line of treatment for the initial symptoms of COVID-19.
- Used X-ray of lungs to find traces of coronavirus in the lungs using CNN model by designing a web-app with a VG16 model to predict COVID through X-ray of lungs, which had an on-paper accuracy of 90% that was trained with over 16,000 image samples with epoch cycles of 50 using VGG16 architecture.
- The medicines that were referred by Dr Deepak Jaiswal, Head of COVID cases handling, Raipur
- Serving its purpose, this application got highlighted in the all India page of a top tier national newspaper, "Patrika." [Link to the article](#)
- [Github link for the project](#)

Raipur/Bangalore, India

Oct 2020 - April 2021

Skills

Programming	Python, JavaScript, Node.js, React.js, MERN Stack, C, Git, MongoDB, MATLAB, (S)CSS, Flask, Streamlit, HTML5
Bioinformatics Tools	R, Biopython, Linux, BLAST+, MEGA-X, Pandas, Numpy, Matplotlib
ML/AI	Keras, Tensorflow, Full-stack Model-Development, Scikit-learn, pandas
Wet Lab Skills	Biosafety cabinet (Level 2), Gel electrophoresis, PCR, MTT assay, Immunological Assays Plant callus culture, Animal tissue culture, Microbiology plating techniques
Interpersonal Skill	Leadership with Critical thinking, Public speaking and Presentation, Problem solving skills, Event management

Seminar and Workshops

Application of computational tools in drug discovery At MSRUAS in 2019