

Rishabh Pandey

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EDUCATION

Northeastern University, Boston, MA Master of Science in Bioinformatics Concentration: Data Science/Data Analytics	Dec. 2024 GPA: 3.34
Ramaiah University of Applied Sciences, Bangalore, India Bachelor Of Science Biotechnology (Hons) Honors: Top 10 Rankers in the Department	Aug. 2021 GPA: 8.90

EXPERIENCE

Computational Drug Discovery with CNN using QSAR modelling , Bangalore, India <i>Full Stack Developer: Python</i> <ul style="list-style-type: none">The inhibition of Acetylcholinesterase is a lucrative therapeutic strategy for the treatment of Alzheimer's disease and using AI we can predict enzyme that catalyzes the breakdown of the neurotransmitter acetylcholine that is essential for cognition and memory.Using ChEMBL database developed web app that predicts bioactivity (pIC50) of the target molecule by CNN using QSAR modelling of protein AcetylcholinesteraseCanonical 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	May 2021 – Jul. 2021
CF-CAP (Computational Flu or COVID-19 Anticipator and Prescriber) , Raipur/Bangalore, India <i>Project Coordinator, Business Analysis</i> <ul style="list-style-type: none">CF-CAP provides first line of aid for the initial symptoms of COVID-19; Using X-ray of lungs to find traces of coronavirus in the lungs using CNN model by designing a web-app with a VGG16 model to predict presence of COVID.CF-CAP had an on-paper accuracy of 90\% that was trained with over 16,000 image samples with epoch cycles of 50 using VGG16 architecture.Serving its purpose, this project was highlighted in a top tier national newspaper, "Patrika."GitHub link for the projectLink for the article	Oct. 2020 – April 2021
FULL STACK WEB DEVELOPER – IISc , Bangalore, India <i>Intern:- Ruby on Rails</i> <ul style="list-style-type: none">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.Created a relational database from scratch for the website and hosted it with all the features that was required	May 2021 – Jun. 2021

TECHNICAL SKILLS

Data Science and Machine Learning:	Data Visualization in Seaborn, Matplotlib, MySQL, PostgreSQL, Microsoft SQL Server, Sklearn, TensorFlow & Keras, Jupyter, Numpy, Pandas
Computer Science:	Full Stack Web Development using MERN Stack with React, Flask and Django, Linux, REST API.
Languages:	Python, JavaScript, SQL, C, Bash, R, MATLAB, (S)CSS, HTML5
Bioinformatics Tools:	Trimmomatic, GSNAP, BLAST, SAM tools, Trinity, BLAST+
Interpersonal Skill:	Leadership with Critical thinking, public speaking and presentation, problem solving skills, project management
Wet Lab Skills:	Biosafety cabinet (Level 2), Gel electrophoresis, PCR, MTT assay, Immunological Assays, Plant callus culture, Animal tissue culture.