Rishabh Pandey

Boylston St, Boston, MA, USA
<u>Emailloinedgrauge</u> 917 513-9270 | Website | GitHub

EDUCATION		
Northeastern University, Boston, MA		Dec. 2024
Master of Science in Bioinformatics		GPA: 3.34
Concentration: Data Science/Data A	nalytics	
Ramaiah University of Applied Sciences, Bangalore, India		Aug. 2021
Bachelor Of Science Biotechnology (Hons)		GPA: 8.90
Honors: Top 10 Rankers in the Department		
EXPERIENCE		
	n CNN using QSAR modelling, Bangalore, India	May 2021 – Jul. 2021
Full Stack Developer: Python		11114 2021 3411 2021
 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 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		
CF-CAP (Computational Flu or COVID-19 Anticipator and Prescriber), Raipur/Bangalore, India		Oct. 2020 – April 2021
 Project Coordinator, Business Analysis 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 VG16		
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 project 		
Link for the article		
FULL STACK WEB DEVELOPER – IISc, Bangalore, India		May 2021 – Jun. 2021
Intern:- Ruby on Rails		·
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 		
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.	