SHUBHAM KUMAR PANDEY

Qualification: M.S. (Pharm.) in Pharmacoinformatics
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EDUCATION

JUNE 2020

MASTER OF SCIENCE (PHARM.)

DEPARTMENT OF PHARMACOINFORMATICS,

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH (NIPER), S.A.S. NAGAR, PUNJAB

CGPA: 9.66

(Bioinformatics, Chemoinformatics, Pharmacogenomics, Toxicoinformatics, Data Analytics & Machine Learning, Molecular Biology)

JUNE 2018

BACHELOR OF PHARMACY

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

CGPA: 8.79

(Pharmaceutics, Pharmaceutical Analysis, Pharmacology, Pharmaceutical Chemistry, Pharmaceutical Biotechnology and Microbiology)

RESEARCH PROJECT

MASTER'S PROJECT:

PREDICTION OF PROTEIN TOXICITY USING MACHINE LEARNING APPROACH

- The objective of the project is to devise classification model for predicting the toxic-proteins
- Developing the web-based tool to deploy the built model

Advisor: Prof Dr Prabha Garg, Department of Pharmacoinformatics (NIPER, Mohali)

INTERNSHIP

ONWARD HEALTH, CENTRE FOR INNOVATION AND ENTREPRENEURSHIP (CIE), IIIT-H, HYDERABAD

- During the internship period clinched knowledge of QSAR model development & application of artificial intelligence on healthcare related structured and image data (using keras, tensorflow, openCV)

TECHNICAL SKILLS

- *In silico* Drug Design
- Machine Learning Model Development-SVM, *k*NN *etc*.

- Molecular Docking, Homology Modelling
- Pharmaceutical Statistical Model Development
- Statistical Analysis of Pharmaceutical Data
- Tool Development and Database Management
- Knowledge of Pharmaceutical Regulatory Affairs and Clinical Data Management

PROFESSIONAL ACHIEVEMENTS

- Qualified National Institute of Pharmaceutical Education and Research - Joint Entrance Examination (NIPER-JEE), 2018
- Qualified Graduate Pharmacy Aptitude Test (GPAT), 2018
- "Chancellor's Scholarship" by the University for meritorious performance in Academic Year, 2017
- "Certificate of Excellence" from SRIJAN for remarkable academic performance, 2016

PUBLICATIONS

Vishnoi, Shubham; Pandey, Shubham, Garg Prabha. Artificial intelligence and machine learning for protein toxicity prediction using proteomics data. *Chem. Biol. Drug Des.* 2020.
Article DOI: 10.1111/cbdd.13701

CO-CURRICULAR ACTIVITIES

- International Conference on Drug Discovery 2020, Schrödinger Inc, USA in collaboration with BITS Pilani, Hyderabad
- Biosafety, radiation safety and chemical safety program conducted by NIPER, S.A.S. Nagar under Board of Governance, India, 2019
- Presented "*Allium hookeri* as Antihypertensive"- Poster Presentation in MP Pride National Conference, Bhopal, 2018
- "Recent Approaches in Medicinal and Plant Biotechnology" MPCST sponsored National Seminar, Bhopal, 2015
- "Current Approaches in Discovery of Novel Immunomodulatory Constituents" DBT sponsored National Seminar, Bhopal, 2014