Pratham Kaushik

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portfolio website- https://prathamkaushik.netlify.app/

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EDUCATION

- Pursuing Master of Science in Artificial Intelligence in Medicine, 2023-25
  Delhi pharmaceutical sciences and research University, New Delhi
- Bachelor of Pharmacy, 2023 (7.62GPA)
  Pandit Bhagwat Dayal Sharma Post Graduate Institute of Medical Sciences

EXPERIENCE

· **AI Internship,** All India Institute of Medical Sciences (AIIMS-New Delhi)   (june24-present)
- iOncology.ai platform: early detection and personalized treatment planning for breast and ovarian cancer
- Data Integration and Analysis
- Deep learning model

· **My-startup,** eLAAZ कोष "For safe coordination -between medicines"   (april24-present)
- AI enable chatbot
- Drug-to-herb and Drug-to-food interaction
- Personalized Medication Advice, Real time interaction checking
- Data collection and preprocessing

· **Artificial intelligence/Machine learning Internship,** at Mentorness,   (april24-june24)
- Twitter Sentiment Analysis
- Bhagwat Gita Chatbot
- Skin Disease Classification
- Comment Generator

· **Industrial Training,** Supermax Drugs & Pharmaceuticals (P) Ltd,   (june22-july22)
– Operated manufacturing machine of beta and non-betalactam injection
– Performed quality control tests on non-sterile products

· **Hospital Training,** Govt. of nct of delhi Satyawadi raja harish chander hospital,   (Jan23-Feb23)
− Pharmacy practice,prescription headling ,patient consultation
− Drug storage,prescription dispensing of medication, quality testing, reporting drug safety

· **Internship in supply chain department,** Abbott Healthcare Private Limited,   (May23-June23)
− Monitar and reporting supply and demand in the axis of good and services to allotted location
− Operation ,logistics resources management

ONGOING PROJECT (AIIMS,NEW DELHI)

- Developing a multi-input multi-output (MIMO) pipeline for the detection of new prognostic indicators responsible for Genetic Variation of Indian Breast & Ovarian cancer Patients. Funded by MeitY (Ministry of Electronics and Information Technology)

PROJECTS

- Parkinsons disease detection using Inception and Xception with attention mechanism
- Esophageal cancer detection using machine learning techniques
- Nusrat fateh ali khan lyrics text generation with an RNN LSTM
- Identifying Brain tumors with transfer learning and attention based models
- Ovarian cancer subtypes with enhanced pre-trained models using differential attention
- Pathological retinal alterations in diabetes
- Hybrid VGG16 and Xception models for breast cancer classification
- Deep learning based white blood cells classification using multi head attention mechanism
- Predicting prostate cancer risk based on PSA and clinical factors
- AI-Powered infertility detection: Leveraging CNN Models on fetal head ultrasound imaging
- spine x-ray images classification using pretrined models with attention mechanism
- Development of CNN based brain tumor classification model for accurate and early diagnosis
- Identifying High-Risk Geographic Areas for Tobacco-Related Oral Cancer based on Ministry of health and family welfare (NDSAP)
- Identifying the effect of Temperature on various disease progressions in a population over a specific time period and yearly time-series analysis.

PUBLICATIONS

- Original Research Article on "Using Functional Genomics & Systems Biology approach to understand Breast Cancer Progression" (AIIMS)
- Original Research Article on "Intelligent Pipeline for Preprocessing and Analysis of Long Non-Coding RNA" (Suheel Yousuf Wani)

Oral Presentations

1. Poster Presentation at Global India AI Summit 2024, New Delhi.
2. Presentation in World Cancer Day 2024: National Cancer Institute, Jhajjar
3. Poster Presentation on its 69th Foundation Day at AIIMS New Delhi

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LICENCES

- Registered Pharmacist No.39415 issued by Delhi Pharmacy Council
- Registered Manufacturing Licenses No.23294 issued by Delhi Pharmacy Council
- Registered Pharmacist Licenses No.BH-P-24-0332125227 issued by Central of Pharmacy Council of India
- Heavy driving License : DL11 2020002526 (TRANS) issued by Transport Department GNCT of Delhi (DL03)

CERTIFICATIONS

- Specialization in AI for Medicine including Medical Diagnosis, Medical Prognosis, and Medical Treatment by Deep Learning.AI
- Professional in DeepLearning.AI TensorFlow developer including CNN, NLP, SQ,TS and prediction
- Hands-on Data Science and AI for Healthcare
- NGS data analysis with DNA shape and dynamics Workshop issued by Jawaharlal Nehru University
- Artificial Intelligence with Deep Learning & Bio-Medical Workshop issued by IIT Delhi
- Containers and AI/ML on AWS Cloud at COGNIZANCE,IIT Roorkee issued by AWS (Amazon)
- Generative Al at COGNIZANCE,IIT Roorkee issued by Intel
- Fundamentals of Deep Learning issued by NVIDIA
- Promptathon 1.0 by Sugarcane Al
- Certificate of Appreciation for academic startup conclave and innovation awards 2023 in DPSRU ,DIIF & DSIR-CRTDH
- Certificate of Coursera course of "learning how to learn"

Technical Summary

Programming Languages:
Python (Proficient in Pandas, Scikit-Learn, NumPy, Matplotlib, Seaborn)
SQL (Structured Query Language)
Groovy Programming Language

Artificial Intelligence and Machine Learning:
Algorithms: Random Forest, Linear Regression, SVM, Decision Tree, Text Mining, NLP, TensorFlow, Keras, Deep Learning (CNN, VGG16, LSTM, ResNet50, FCN, FRCNN)

Bioinformatics Tools:
Autoclave, Artemis, Protein Data Bank (PDB), Pathogenwatch, SwissADME

Data Science and Analysis Frameworks/Tools:
Flask, FastAPI, Databricks, Snowflake, MySQL, Power BI for Data Visualization

Cloud and Pipeline Technologies:
Nextflow (RNA-Seq and Basic Pipelines)
Amazon Web Services (AWS): Bedrock, S3, Glue, SageMaker, Data Wrangler
CI/CD Pipelines, Docker

Other Technical Skills:
HTML, CSS, Git/GitHub for Version Control
Agile Development Practices