Ninaad Kalla

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https://www.ninaadkalla.com
https://github.com/ninzyyy
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Skills

PROGRAMMING
Python, SQL,
Github, JavaScript

BIOCHEMISTRY
LIMS, CFX Maestro,
BLAST, PyMol

LANGUAGES
English, French,
Hindi, Urdu

MACHINE LEARNING
Scikit-learn, Tensorflow,
Keras, ML Flow

DATA ANALYTICS
Pandas, Numpy, Scipy,
Statsmodels, Matplotlib,
Seaborn, Tableau

CLOUD & PRODUCTIVITY
Google Cloud Platform, MongoDB,
BigQuery, Google Suite,
Microsoft 365, Heroku

Professional Experience

Jun 2023 – Present **DATA SCIENTIST**, VeracityBio

Engineered a Python-based machine intelligence platform using Pandas, NumPy, Scikit-learn, and Streamlit for automatic data collection, visualization, and analysis. Aimed to help researchers verify the validity of academic claims.

Experimented in clustering and classifying biomedical research papers in citation networks ranging from 1,000 - 10,000 papers. Used a combination of TF-IDF, PCA, t-SNE, and K-means methodologies.

Employed modern JavaScript visualization libraries Sigma.js and Graphology to generate interactive network graphs to track the evolution of scientific ideas.

Sept 2019 – Aug 2022 **RESEARCH ASSISTANT**, Galenvs Sciences

Developed and implemented a Google Apps Script-based scientific laboratory notebook, improving work processes and collaboration within the lab.

Liaised between the data science team and lab scientists, managing data flow, requirements, and analysis, and contributing to automated data analysis pipelines.

Designed and optimized protocols for liquid-handling experiments using the Hamilton STAR, a cutting-edge robot, ensuring reproducible and precise data.

Synthesized, optimized, and validated magnetic nanoparticle-based nucleic acid extraction kits improving sample quality and throughput.

May 2018 – Aug 2018 **DATA SCIENTIST**, ERA Environmental Management Solutions

Designed the user interface of proprietary software for streamlined data entry, adhering to Canadian federal guidelines on environmental standards and simplifying compliance tasks for client companies.

Collaborated with software developers to develop standardized data entry protocols, ensuring accurate data entry, and improving consistency across datasets.

Dec 2017 – Mar 2018 **ASSISTANT LABORATORY TECHNICIAN**, Marianopolis College

Collaborated with senior faculty in supporting lab operations, gained hands-on experience in equipment handling, prepared lab material for students, and ensured safety and organization during labs.

Education

Apr 2024 - Current **BIOINFORMATICS,** Master of Science (BSc)
Université de Montréal, Montréal, Canada

Jan 2023 – Jun 2023 **DATA SCIENCE BOOTCAMP**, Le Wagon

24-week part-time intensive coding bootcamp focused on mastering data science using Python.

Acquired skills in machine learning and deep learning through hands-on learning with Scikit-learn, TensorFlow, and Keras, focusing on a blend of theory and practical projects.

Designed, built, and deployed robust data products, incorporating ML Ops practices and tools such as Google Cloud Platform, ML Flow, Heroku, and Streamlit.

Aug 2018 – Jun 2022 **HONOURS BIOCHEMISTRY (CO-OP),** Bachelor of Science (BSc)
Concordia University, Montréal, Canada

Aug 2016 – Aug 2018 **PURE AND APPLIED SCIENCE**, Collegial Studies Diploma (DEC)
Marianopolis College, Montreal, Canada

Projects

May 2023 – Jun 2023 **PILL PIC**

A deep learning app to identify medication by taking a picture.

Utilizes Ultralytics YOLOv8 for pill detection and Google's Inception-v3 for accurate pill identification.

Trained on over 80,000 unique images of pills with a final validation accuracy of 98.41%.

Returns relevant information to the user regarding the pill such as: dosage, side effects, and precautions.

May 2021 – Dec 2021 **BSC. HONOURS THESIS**

Microwave Reactor-Based Synthesis of Metal–Organic Frameworks for the Capture and Purification of Humic Acids from Environmental Soil Samples

Certificates

Supervised Machine Learning: Regression and Classification	**Unsupervised Learning, Recommenders, Reinforcement Learning**	**Advanced Learning Algorithms**
DeepLearning.AI, Stanford University	DeepLearning.AI, Stanford University	DeepLearning.AI, Stanford University