

Jahnavi K, MSc | Data Scientist

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Health Informatics | Molecular medicine | Pharmacy | Data Science

I am a determined postgraduate with a diverse and multidisciplinary background. My aim is to further develop and grow the knowledge and experience within the sectors that positively impact people's lives and society namely **pharmacy, molecular medicine, health informatics** and **data science**. I am passionate to make a significant contribution towards research that is aimed at optimizing **medicine** and **clinical practices for societal benefits**.

EMPLOYMENT HISTORY

University of Leeds - Leeds, UK

June 2023 – January 2024

International Welcome Team Lead

- **Supervised** and **coordinated** a team to enhance international student welcome experiences.
- Addressing **queries** and **concerns** for a smooth student **transition** and **international** student orientation.
- **Data collection** and **maintenance** via **CRM** software.
- Efficiently managed event **logistics, optimizing resources** for successful execution.
- **Delegation** of tasks to **subordinates** to achieve targets while upholding university **policies** and **procedures**.

LiveAltLife pvt ltd

June 2022 – September 2022

Patient Counselor/ Sales Representative

- Provided **personalized counseling** with empathy for diverse patients.
- Offered valuable **product insights**, aiding **informed decisions** through **persuasion**.
- Managed patient data efficiently using **spreadsheets** and **CRM** for **sales tracking**.
- Enhanced sales processes through effective **collaboration** and **relationship building**.
- Customer **conflict resolution** and **query handling**.

JTT (Travel Business)

2017 – 2022

HR and Administration

- Conducted **market research** to customize client **portfolios**, enhancing **competitiveness**.
- Drafted **legal agreements**, ensuring **strict compliance** with local **laws**.
- Filed monthly **tax returns** meticulously, adhering to **financial regulations**.
- Strengthened **client relationships** by delivering **personalized quotations**.
- Implemented innovative HR strategies, contributing to **employee engagement** and satisfaction within the organization.

VOLUNTEER EXPERIENCE

Government of Karnataka

Department of Ayush - Bangalore, India

April to November 2020

- Worked in frontline of an effective **emergency** response during the pandemic, ensuring access to **healthcare** resources.
- Successfully **mobilized critical** healthcare resources to support patients in need.
- Provided **essential guidance** to patients, resulting in improved outcomes and **increased access** to healthcare.

RESEARCH EXPERIENCE

Comprehensive overview of disease trajectories following Myocardial Infarction May 2023 – Sept 2023

Calculated the similarity between disease occurrences using **Jaccard similarity index** and Used **Markov clustering algorithms** for grouping disease trajectories based on the index. Utilized **Pygraphviz** for the visualization of disease networks.

Leeds institute of Cardiovascular and Metabolic Medicine

University of Leeds

Relation between population density and equitable distribution of healthcare resources March – May 2023
Imported **spatial** and **statistical** data from various public repositories and processed it into a suitable data form (CSV) to evaluate the correlation between population distribution and healthcare distribution. Created **choropleth** map and **kernel density** map using **QGIS** software to highlight the disparities between population density and distribution of healthcare resources in England.

University of Leeds

Study determining a better plant source for antioxidants to treat Parkinson's disease Feb 2022 – July 2022
Identified that antioxidant levels vary during different stages of plant **growth** and **development**. Used analytical methods like **FCR**, **DPPH**, **FRAP**, **ABTS** etc, to evaluate the strength of antioxidants from different plant sources.

School of Allied Healthcare and Sciences
Jain deemed-to-be University

Molecular diagnostic techniques and clinical pharmacology

April – May 2022

Patient record assessments and **maintenance** in the department of **oncology**. Assessment of **drug activity** and **drug-drug interaction** (clinical pharmacology) among patients in the department of nephrology. **Isolation** and **processing** of different components of blood – blood bank.

Aster multispecialty hospital

Industrial training internship

August 2019

Formulation and **Manufacturing** – to oversee the assembly line manufacturing and make sure **SOPs** are followed stringently. **QA & QC** – training in evaluating samples during different stages of the manufacturing process. **Waste** handling and disposal – procedures of **recycling solvents** and safe disposal while following **environmental regulations**.

Medreich Pvt. Ltd.

Pharmaceuticals extraction, formulation and study of alternate medicine

August 2018 - August 2019

Extraction of **API** from various plant sources and worked on optimizing product yield. Laboratory level **manufacturing** of various **dosage forms** in **commercial** use.

Antibiotic strength evaluation

August 2017 - March 2018

Evaluated effects of different doses of drugs on bacteria in different culture media – **Microbiology**. Trained in **culture** and **aseptic techniques**, bacteria **enumeration** and **pathogen identification**.

Animal studies

August 2017 – May 2019

Assessed the effects of stimulants on **murine** models to conclude the saturation dose. Received training in **animal handling**, **dissection** and basic pharmacological techniques.

RGUHS

EDUCATION

MSc – Health Informatics with Data Science, 2023

University of Leeds - Leeds, *United Kingdom*

Pass

MSc – Molecular Medicine and Stem cell Technologies, 2022

Jain deemed-to-be University - Bangalore, *India*

8.65 CGPA

B.Pharm

Government College of Pharmacy - Bangalore, *India*

71%

SKILLS

- Machine learning: **Python (Matplotlib, Pygraphviz, Pandas, Scikit learn)**
- Data analysis: **R (ggplot, ddplyr, tidyr, stringr, caret, mlr3)**
- Data Visualization: **Power BI & QGIS**
- Laboratory techniques: **Column chromatography, liquid chromatography, HPLC, Colorimetry, fluorimetry, UV spectroscopy, compound synthesis, animal dissection/ex-vivo experiments, in-vivo experiments, bacterial cell culture, plant dissection & compound extraction**