# Kaustubh M

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## WORK EXPERIENCE

1) **Petbiotech** – Product Developer/Software Developer ( 2022 – 2023 )
   - Introduced a real-time data monitoring system, enhancing decision-making and operational efficiency by 15%.
   - Streamlined sample tracking and management processes by overhauling the existing system, ensuring accuracy with 99% precision and reducing logistical delays by 20%.
   - Spearheaded the development of a comprehensive company website and portal, fostering seamless communication, resource accessibility, and brand representation by 25%.

   Soft skills – Accuracy, Work ethic, Positive attitude, Project Management.
   Technical skills – Software development and testing, Databases (SQL), Cloud computing (AWS), Python.

2) **Utpal Tatu Lab, Indian Institute of Science** – Research & Data Analysis (2022 – 2023)
   - Conducted a comprehensive literature survey on Lumpy Skin Disease Virus, identifying key research findings and gaps.
   - Performed epidemiology studies on Lumpy Skin Disease, analyzing data and identifying risk factors for outbreaks.
   - Developed protocols for prevention and control of LSDV outbreak in Rannebennur Taluk, reducing the outbreak duration by 10%.

   Soft skills – Problem-solving, Attention to detail, Time management, Creativity and Organization.
   Technical skills – Data modelling, Programming(R,Python), Statistical analysis, Data processing and analysis.

3) **Falcon Logic** – Digital Marketing & Data Scraping ( 2021 – 2022 )
   - Collected and validated important information in correlation to the businesses in the same ecosystem, improving data accuracy by 20%.
   - Provided data required by businesses for customer acquisition, increasing customer acquisition rate by 15%.
   - Managed and equipped a team of 5 with the latest practices of lead generation, generating 30% more leads than the previous year.
   - Enabled the networking of diverse B2B businesses and assisted with customer acquisition, increasing revenue by 20%.

   Soft skills – Communication, Collaboration and Social Intelligence, Adaptability, Conflict resolution and Dependability.
   Technical skills – Digital marketing, Data scraping, Data processing and analysis and Lead generation.

## PROJECTS

1) **Use of Image Processing in the Diagnosis of Covid-19**
   - Developed an effective and a novel approach in the detection of Covid-19 disease, increasing the detection accuracy by 25% compared to existing methods.
   - Efficiently implemented the web hosting of the web app using AWS (Amazon Web Services), enabling seamless access and scalability for users worldwide.
   - Mastered and employed the concept of Machine Learning and image processing for the project, demonstrating expertise in leveraging advanced technologies.

   Soft skills – Presentation, Public speaking and Chart making.

   Technical skills – Cloud computing (AWS), Agile approach , Python with Pandas, Matplotlib, Seaborn.

2) **Use of Machine Learning in Drug Discovery**

- Designed and trained a machine learning model to predict active precursor molecules in the process of drug discovery, improving the accuracy of drug discovery by 40%.
- The model designed has an efficiency of more than 90 % and has passed varied statistical tests.

Soft skills – Communication, Creative design, Critical thinking.

Technical skills – Pytorch, Streamlit, Flask, Regression models.

3) **Designed plant-based scaffolds for culturing of Liver and study of Liver regeneration -**

- Managed a team of two and successfully delivered the project despite the hurdles caused by covid-19, demonstrating leadership and resilience.
- The scaffold designed showed immense bio-compatibility with hepatocytes, opening up new possibilities for tissue engineering and regenerative medicine.
- Discovered that the scaffold had hepatoprotective activity against alcohol, further enhancing potential applications.

Soft skills – Literature survey, Information gathering, Problem solving, Project management.

Technical skills – Animal cell culture, Tissue engineering, Biochemistry, Statistical test and data analysis.

4) **Data Analysis on User data collected from Bicycle riders on a health app (Cyclistic)  -**

- Procured and cleansed data from numerous sources, including Cyclistic and wearable devices, guaranteeing data quality and consistency.
- Analysed data to identify trends and patterns in user behaviour, providing insights for product development and user engagement.
- Presented findings in clear and concise reports, effectively communicating insights to stakeholders and driving action.

Technical skills – Data analysis, R programming, Data visualization, Tableau, Excel, SAS and Python.

## EDUCATION

**Queen Mary University of London**| MSc Artificial Intelligence     Expected- 2024
- Course Representative.

**Sir M Visvesvaraya Institute of Technology**| Bachelor of Engineering   Passed with First Class Distinction  -  2022
- GPA: 8.13.
- Founder of Theatres club - Abhinaya, Founding Admin to a famous college meme page - Idiosyncratic_mvit__memes on Instagram.

**Florence Public School**| ICSE      Passed with Distinction  - 2016
- GPA: 83%.
- *Cabinet Member* , Cultural and student council;

## SKILLS

**Programming** – R, Python, C,  Java,  SAS

**Frameworks and Libraries** – Numpy, Sklearn, Pytorch, Seaborn, Streamlit, Flask, Fastapi, SQLAlchemy, SQLite, MySQL

**IT** – Excel, PowerPoint, Word, Machine Learning, Image Processing, Adobe Photoshop, Adobe Premiere Pro, Davinci Resolve, Data Analytics, Tableau, Unix

**Engineering** – Wet lab, Good Laboratory Practises (GLP), Bioinformatics tools, Research, Literature Survey, Technical writing, Biostatistics, Molecular Gastronomy, Solid Edge, Autocad

**Languages – English (Professional proficiency), Hindi (Native proficiency), Kannada (Native proficiency)**

## COURSE CERTIFICATES

1) **University of Michigan** - Getting Started with Python.
2) **The Hong Kong University of Science and Technology** - The Science of Gastronomy.
3) **Google's Professional Certification** - Data Analytics.