

# RISHABH JHA

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## OBJECTIVE

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To pursue a Masters leading to Ph.D. in Computer Science with specialization on Artificial Intelligence in Medicine, using my expertise in AI, data analytics, and medical research to advance innovative solutions for healthcare challenges and improve patient outcomes.

## EDUCATION

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**Graduate Certificate in Artificial Intelligence and Machine Learning,**  
Lambton College

Expected Aug 2025

**Bachelor of Technology in IT Engineering,** Kurukshetra University  
University Gold Medalist

2017 - 2021

## TECHNICAL SKILLS

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<b>Programming Skills</b>	Python, R, SQL
<b>Data Visualization</b>	Tableau, PowerBI, Plotly, MS Excel
<b>Cloud Platform</b>	Google Cloud, AWS
<b>ML Practices</b>	Feature Analysis, Explainable AI, LLM and NLP

## EXPERIENCE

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**Data Analyst - Part time**  
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Nov 2024 - Present  
*Toronto, ON*

- Analyzed customer purchasing trends and optimized product recommendations, improving sales by **15%**.
- Performed SQL queries to extract and clean large datasets, ensuring accuracy for analysis and reporting.
- Developed interactive dashboards in Tableau to visualize sales performance and customer segmentation.
- Collaborated with the marketing team to design data-driven campaigns, resulting in increased customer engagement.

**Data Scientist and CEO**  
PyTech IT Solutions

Aug 2022 - Dec 2023  
*Kathmandu, Nepal*

- Led the development of data-driven solutions for business and marketing projects, focusing on customer acquisition strategies and growth.
- Designed and implemented an academic medical diagnosis system for Nepalese Doctor Lounge, improving diagnostic accuracy and efficiency.
- Oversaw end-to-end project lifecycles, including data collection, analysis, and deployment of machine learning models.
- Managed cross-functional teams, driving innovation and ensuring alignment with business objectives.

**Python and Data Science Instructor**

Aug 2021 - Dec 2023

- Lumbini Academic College, Affiliated to Tribhuvan University, Nepal (Aug 2021 – Dec 2023)
- ISMT College, Kathmandu, Affiliated to University of Sunderland, UK (Jan 2022- Sept 2023)

## PROJECTS

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**Diagnosis of Coronary Heart Disease using Explainable AI** Developed a machine learning model for the early diagnosis of coronary heart disease by analyzing patient data. Integrated explainable AI techniques to ensure transparency and interpretability of the model's decision-making process, enabling medical professionals to understand and trust the model's predictions.

**Brain Tumor Segmentation using Deep Learning** Implemented a deep learning-based model for automated brain tumor segmentation in medical imaging. Utilized advanced neural network architectures (e.g., U-Net) to accurately identify and segment tumor regions in MRI scans, improving the efficiency and accuracy of radiological assessments.

**Doctor's Assistant Using NLP** Created a natural language processing-based virtual assistant for doctors, designed to assist in medical data management and patient interaction. Leveraged NLP techniques to process and analyze patient records, facilitate appointment scheduling, and provide real-time medical information, enhancing workflow efficiency in healthcare settings.

## CERTIFICATIONS

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**Google Data Analytics Professional Certificate**  
**AI in Medicine Specialization, Stanford University**

*Dec 2024*

## EXTRA-CURRICULAR ACTIVITIES

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- Actively participate in Conferences and Technical Events
- Reading Self help and Spiritual books

## PUBLICATIONS

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**Brain Tumor Segmentation Using Deep Neural Image Analysis.**

Published in *World Journal of Advanced Research and Reviews*. This research explores advanced deep learning techniques for brain tumor segmentation, improving diagnostic accuracy using neural image analysis methods.  
<http://dx.doi.org/10.30574/wjarr.2024.24.3.3970>

**Application of Explainable AI for Diagnosis of Coronary Heart Disease.**

Published in *IJIRST*. This paper investigates the integration of Explainable AI in the diagnosis of coronary heart disease, offering insights into improving medical decision-making processes.  
<https://doi.org/%2010.5281/zenodo.14575931>

**Convergence of AR, VR, IoT with Artificial Intelligence to Train Surgeons for Medical Surgeries**

Published in *Taylor & Francis*. Explored the integration of advanced technologies like AR/VR, IoT, and AI to develop immersive training systems for enhancing surgical precision and efficiency.

**Google Scholar Link:-**

<https://scholar.google.ca/citations?user=ycR4ahwAAAAJhl=en>