

Arya Sahu

Master of Technology
in Biomedical Engineering
Indian Institute Of Technology, Ropar

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GitHub LinkedIn
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EDUCATION

- **Master of Technology in Biomedical Engineering(Machine Learning)** 2022-24
Indian Institute of Technology, Ropar CGPA: 7.56(till 3rd sem)
- **Bachelor of Technology in Biotechnology** 2018-22
Dr. Ambedkar Institute of Technology for Handicapped, Kanpur CGPA: 8.50
- **Senior Secondary Education (CBSE)** 2016-17
B.S.S. Public School, Raebareli Percentage: 88.6%

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, SQL, Basic C, HTML, CSS, JavaScript
Machine & Deep Learning : TensorFlow, Keras, Sci-kit learn, Numpy, Pandas, Matplotlib, Seaborn, Scipy, Statistics
Tools: Tableau, MS Excel, GitHub, Visual Studio, Autodesk Fusion 360
Areas of Interest: Data Analytics, Deep Learning, Front-End Development.
Soft Skills: Critical Thinking, Self Motivated, Public Speaking, Resilient

EXPERIENCE

- **Exposys Data Labs** Oct 2023 - Nov 2023
Intern Punjab
– Designed and developed a web-based Mass-Mail Dispatcher, enabling efficient bulk email sending by uploading CSV files. Implemented features for sorting valid and invalid emails, enhancing user convenience in managing recipients. **Project Link**
- **Talentio Solutions India Pvt. Ltd.** June 2019 - July 2019
Intern Kanpur
– Completed a Verbal Ability and Soft Skills training program by Talentio Solutions at my college. Also, successfully executed a Python mini-project during the training, focusing on breast cancer prediction using machine learning. **Project Link**

PROJECTS

- **Real-time Yoga Pose Classification using Mediapipe and Deep Learning** June 2023 - May 2024
Dr. Ashish Sahani, Masters Thesis Project, IIT Ropar **GitHub**
– Enhanced a health tech solution for yoga pose classification using a custom dataset and Mediapipe for keypoint extraction.
– Developed a hybrid deep learning model with CNN, LSTM, and attention mechanism for real-time yoga pose identification.
– Deployed the model with Tkinter, creating a user-friendly interface for practical use and focusing on project enhancement.
– EXPOSURE: Mediapipe library, TensorFlow, Keras, scikit-learn, Visual Studio, Deep Learning, Python, Tkinter, GitHub.
- **Sales Data Analysis** Feb 2024 - Mar 2024
Course Project **GitHub**
– Employed Python, Pandas, and Matplotlib to conduct in-depth analysis of sales data spanning 12 months, addressing various business queries and uncovering key insights.
– EXPOSURE: Python, Pandas, Matplotlib, Data analysis, Informed decision-making, Visual Studio, Business strategy development, GitHub.
- **Face Recognition-based BMI Calculator Website** Jan 2023 - Apr 2023
Dr. Ashish Sahani, course project **GitHub**
– Executed front-end development for a Face Recognition-based BMI Calculator Website, emphasizing intuitive UI design.
– Collaborated on a health-tech project, showcasing expertise in web design and usability within a team.
– EXPOSURE: HTML, CSS, JavaScript.

COURSES AND CERTIFICATIONS

- **Cisco-certified: Data Analytics Essentials** Completed exploratory data analysis (EDA) to uncover trends, patterns, and outliers within datasets, utilizing a combination of Excel, SQL, and Tableau analytical software
- **CS50x - Harvard University** proficient in computer science fundamentals with C, Python, and JavaScript. Hands-on experience with tools including Flask, SQLite, Bootstrap and git.

POSITIONS OF RESPONSIBILITY

- **Placement coordinator** Career Development and Placement Cell, IIT Ropar May. 2023 - May. 2024
- **Batch Representative** M.Tech 2022, IIT Ropar Aug. 2023 - June. 2024
- **Anchoring coordinator** Shankhnaad, Dr. AITH Feb. 2019 - March. 2019

ACHIEVEMENTS

- **Published Book Chapter** "Potential of Microbes for the Bioremediation of Heavy Metal-Contaminated Soil" 2023
- **Successfully qualified GATE-2022** exam in first attempt. 2022