

Ishika Bhaumik

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Education

2024 Sep – Expected 2026 Davis	Master of Science in Computer Science <i>University of California Davis</i>
2018 – 2022 Bhubaneswar	Bachelor of Technology in Computer Science and Systems Engineering <i>Kalinga Institute of Industrial Technology, India</i> CGPA - 9.10

Skills


Technical Skills

- Languages- Python, C/C++, Java, JavaScript
- Database- SQL, Snowflake
- Web development- React.js, HTML, CSS, OOP
- Tools- Eclipse, Visual Studio, Jupyter Notebook, Git
- Model Development- Data manipulation and visualization, Machine Learning, Deep Learning, NLP

Core Competencies

- Communication: Explained complex concepts clearly and concisely to students.
- Leadership: Led discussions, guided group work, and mentored students.
- Time Management: Balanced multiple tasks and responsibilities efficiently.
- Research Skills: Conducted research work and authored research papers

Publications and Research Work

2020 Jun – 2021 Oct	Publication: Understanding evolution of COVID-19 driven mortality rate medRxiv, https://doi.org/10.1101/2022.01.16.22269210  <i>Indian Institute of Technology Indore (IIT Indore)</i> Utilized FFT-driven Machine Learning in Python to analyze COVID-19 mortality rates across countries and identify correlations with socio-economic factors and food habits, revealing close dependencies. Derived insightful conclusions, presenting findings through visualizations and reports, contributing to scientific discussions.
2021 Jan – 2021 Jun	Hyperparameter Optimization for convolutional neural network for classification of Chest X-ray dataset <i>Kalinga Institute of Industrial Technology Odisha</i> Used Python based CNN model to optimize various hyper-parameters involved in detecting pneumonia in the chest X-ray image dataset.

Relevant Experience

2022 Jan – 2024 Aug Hyderabad, India	Associate Analyst <i>Novartis AG</i> <ul style="list-style-type: none">• Mentored New Employees and Led Team Collaboration: Guided new team members, ensuring smooth integration and effective performance. Organized and directed meetings to tackle business challenges and develop solutions using React.js and Java.• Presented Solutions and Developed Software: Delivered presentations on IT solutions to stakeholders, ensuring alignment with business needs. Developed software using React.js, Java, Python and Snowflake.
2021 Jun – 2021 Dec	SDE Intern <i>Highradius Technologies</i> Developed client websites for a fintech company using React.js, JavaScript and SQL , implementing features such as secure payment processing, real-time transaction tracking, and personalized financial dashboards.
2023 Dec – 2023 Dec Indore, India	Instructor at a Non Profit Organization <i>Shree Anant Tapasya Janakalayan Sanstha India</i> Taught Basics of Computer Science: Instructed 17 orphaned students at a NGO in basic computer science concepts, enhancing their technical skills and fostering a supportive learning environment.

Projects

Portfolio Website

- Developed my portfolio website using **HTML, CSS** and **JavaScript**.

Python Based Chatbot and Personal Assistant

- Utilized **Python** and **NLP** to train on text data, enabling extraction of information from websites and performing various other advanced functionalities. Proficient in both typed and speech command comprehension.

Driver Drowsiness Detection

- A **python** and **open-CV** based project to detect drowsiness of a driver from video footage.

Skin Cancer detection using Skin lesion image dataset

- Developed a **python** code for a **CNN** model on Kaggle to detect skin cancer on skin lesion image dataset

Interests

- Competitive Programming
- Reading Books
- Writing Blogs 
- Music