

# HARDIK BISHNOI

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## EDUCATION

**Bachelor of Technology (Computer Science and Engineering)** Aug 2019 – Jul 2023  
**University:** [Guru Gobind Singh Indraprastha University, Delhi, India](#)  
**Institute:** [Bharati Vidyapeeth's College of Engineering, New Delhi, India](#)  
**Advisor:** Asst. Prof. Silica Kole

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## RESEARCH EXPERIENCE

*Journal Paper (under correction, submitted to [Artificial Intelligence Review](#))*

Rahul Suresh, **Hardik Bishnoi**, Artem V. Kuklin, Atharva Parikh, Maxim Molokeev, S. Gharat, Hiba. P. - *Applications of Machine Learning in Physics - A Detailed Review*

*Major Project (ongoing)*

**Hardik Bishnoi**, Shivam Sharma, Aayush Anand - *Automated Optimized Traffic Light System Using Computer Vision*

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## POSITIONS

[Deloitte India](#), Delhi, India

**Machine Learning Intern**

Sep 2022 – Dec 2022

**Advisor :** Pranav Sondhi, Japneet Sachdeva

- Designed a multiclass text classifier from scratch using fastText embeddings and BERT to identify what and how employees comment about their companies over company review sites by classifying the reviews under various pillars.

[Unlearners Tech](#), Hyderabad, India (Remotely conducted)

**Back-end Developer and Core Team Member**

Sep 2021 – Mar 2022

- Supervised the deployment and design of a portable, handheld health-monitoring device called "Pebbl", enabling quick, easy and reliable measurement of temperature, oxygen saturation and auscultation. [\[Talk\]](#)
- Pitched a proposal at the [Cisco ThingQbator](#) program and successfully procured a funding of US\$7,000 for the startup project. [\[Certificate\]](#)
- Developed an API and Deployed a test-version of a website on Amazon Web Services

[Maveric Solution Inc.](#), Delhi, India

**Research and Design Analyst**

Jul 2021 – Sep 2021

- Aided in the development and design of High-Fidelity Surgical Simulators.
- Researched and collected data on available methods to increase patient safety that can be applied to surgical simulators for professional training.

## PROJECTS

- Automated Traffic Monitoring and Control System using YOLOv5 (made for Smart India Hackathon 2022, 2nd Prize) Aug 2022
  - Galaxy Classification Using Multi-band Data from EFIGI dataset (SDSS) over numerical Hubble classes using CNNs. Oct 2021
  - Classical Music Generation through Tensorflow Magenta Jan 2021
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## SELECTED HONORS and AWARDS

- Second Place - Smart India Hackathon Grand Finale (Hardware Edition) Aug 2022
  - Cisco ThingQbator Award for "Remote Health Monitor" Nov 2021
  - [Global Nominee](#), NASA SpaceApps Challenge Oct 2020
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## TECHNICAL SKILLS

**Proficient:** Python, SQL, C, C++, L<sup>A</sup>T<sub>E</sub>X, Java, Git, HTML, Javascript

**Working Knowledge:** MATLAB, Android, Typescript and Unix shell scripting, ADQL, AWS, Notion, Blender, Photoshop

**Libraries:** KERAS, TENSORFLOW, OPENCV, JUPYTER, MATPLOTLIB, PANDAS, NUMPY, RAVE, LIGHTKURVE, SCIPY, SELENIUM, BEAUTIFULSOUP

**Key Technologies:** Deep Learning, Machine Learning, Computer Vision, Natural Language Processing, Image Processing, Signal Processing, 3D Modelling & Simulation, Game Development

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## COURSES, WORKSHOPS, and CONFERENCES

- **Notable Undergraduate Coursework:** Applied Physics (I & II), Applied Mathematics (I, II, III, & IV), Signals and Systems, Algorithm Design and Analysis, Data Structures, Theory of Automata, Communication Systems
  - **Other Courses:** [Introduction to Astronomy Research 2021](#), [Data-Driven Astronomy on Coursera](#) (University of Sydney)
  - **Workshop:** Sagan Exoplanet Summer Workshop on Circumstellar Disks & Young Planets (NExSCI, 2021), BULGES 2022 Conference (European Space Union)
  - **Winter School:** [SOKENDAI Asian Winter School for Astronomy \(2022\)](#)
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## LEADERSHIP, VOLUNTEERING and OUTREACH

- Head, Gaming Multimedia and Animation Society (GAMMA), BVP IEEE Aug 2020 – Jul 2021
  - Volunteered in the Innovicon entrepreneurship conference Sep 2020
  - Instructor & Organizer, Game Development Series, BVCoE Oct 2020
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