

CURRICULUM VITAE

Tarun Bisht

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Location: Uttarakhand, India

RESEARCH INTERESTS

My research goal is to contribute to the advancements of AI. My research interests include Machine Learning, Computer Vision, Signal Processing and Generative AI. My current interests include self-supervised learning in vision and speech understanding which includes learning robust feature representations from data in a self-supervised manner, streaming end to end speech recognition systems etc.

EDUCATION

M. Sc. in Computer Science, Kumaun University (2018 – 2020)

- Thesis: Application of object detection in home surveillance system
- Research Focus: Creating low compute object detection systems for home surveillance.
- Percentage: 76.55%, Division: First, Rank: 1st

B.Sc. in Computer Science, Physics and Mathematics, Kumaun University (2015 – 2018)

- Percentage: 65.48%, Division: First

RESEARCH EXPERIENCE

[The Sound Of AI - Open Source Research](#), (2020 - Ongoing)

The group aims to create a piece of collaborative research in the field of AI music. I am currently working as a research co-coordinator for speech to text division. Our responsibility includes the conversion of speech into text and its integration in the production environment.

Research Project - Kumaun University, (2020)

I have done my master's thesis on the application of object detection in home surveillance, which mainly deals with the problem of creating cheap alert systems for monkey theft detection in our area and alerting the user when detected.

National Children Science Congress (NCSC), (2010-2012)

Actively presented research experience papers in NCSC. The research topics include Land resources: use for prosperity, save for posterity and Energy: explore, harness and conserve.

TEACHING EXPERIENCE

Worked as a private tutor alongside college, the teaching subjects include Computer Science for bachelor's students and Physics, Mathematics for 10 to 12th-grade students. I also write educational tutorials related to computer science and artificial intelligence on my [website](#).

WORK EXPERIENCE

Web and Application Development

- Created solutions for my university, related to employee and library management.
- Developing and integrating machine-learning applications.

ACHIEVEMENTS

- GATE (2021): Organized by IIT Bombay (Qualified)
- UGC NET (2020): Organized by UGC (University Grants Commission) for Assistant Professor (Qualified)
- Winning object detection competition with rank 2 organized in [dockship.io](#)