

# Nikhil Dugar

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## WORK EXPERIENCE

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### Awiros

May. 2022 – Present

#### *Computer Vision Engineer*

- Designed and Upgraded various Computer Vision based software applications for the company's 1st complete build resulting in a 70% increase in the speed of deployment and higher quality of satisfaction from the end user.
- Automated various model testing and comparison scripts allowing for quicker and unbiased testing.
- Customized detectors for specific real world tasks, allowing better results than traditional YOLO and SSD models in tasks like Vehicle detection and pothole detection over multiple camera angles using PyTorch and Darknet.
- Worked on complex problems such as Violence detection using non-traditional methods which led to a 15% increase in detection accuracy compared to previous methods.
- Developed and ported the company's platform and applications on x86 edge devices, allowing the company to display the technology at ISC East 22.
- Developed an easy-to-customize base architecture for multi-label classification problems allowing faster development for upcoming problems.

### Personabo

Oct. 2021– Mar. 2022

#### *Machine Learning Engineer*

- Fine-tuned multiple DeBERTa-based models, including DeBERTa-v2 and DeBERTa-v3, to optimize performance on tasks such as text classification using PyTorch.
- Made multiple datasets for the company using real-world data from the users allowing for better and more focused on task training and testing.
- Improved existing system's accuracy by around 10% through fine-tuning Zero-shot models over multiple public and privately curated datasets.

### BigBasket

Jan 2021 – July 2021

#### *Software Engineer Intern*

- Part of the team building the next phase of BigBasket's technology BB2.0, by rewriting the core functionalities as highly configurable, reliable, and available microservices to incorporate dynamic business decisions and an ever-growing customer base.
- Learned software engineering processes and made multiple improvements while following best practices.

## EDUCATION

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### NIIT University

Jun 2021

#### *Bachelors in Computer Science and Engineering*

CGPA- 8.16

The Degree focused primarily on learning Artificial Intelligence, Computer Vision, Natural Language Processing as well as programming principles and Software Development.

## SKILLS & INTERESTS

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- **Skills:-** Tensorflow, Pytorch, Computer Vision, NLP, OpenCV, HuggingFace, Scikit-Learn, Numpy, SQL, bs4, Selenium, Pandas
- **Interests:-** Stand up, sleeping, swimming, rap

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[LinkedIn](#)

[GitHub](#)

[HuggingFace](#)