

Ashish Anton Abraham

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EDUCATION

College of Engineering Trivandrum
BTech, Computer Science & Engineering

November 2020 - Present
Expected Year of Graduation: 2024
Current GPA: 9.1/10

EXPERIENCE

ML Engineer - Contractor 📄 | Client - Snap Inc.

June 2022 - November 2022

- Developed ML-powered Augmented Reality Lenses, focusing on performance and frame stabilization. Deployed **mobile-compatible GAN** by reducing memory usage by 40% to create powerful AR experiences with Lens Studio.

SDE Intern 📄 | Phorena, USA

May 2021 - May 2022

- Engineered and optimized network modules in **Rust** for IoT devices using **MQTT-SN** networking protocol; reduced code size by 40% using macros and improved memory usage and speed by 25%.

ML Intern 📄 | Feynn Labs, Guwahati

November 2021 - January 2022

- Applied exploratory data analysis, **principal component analysis** and **clustering** methods on web-scraped data to prepare detailed reports on entry to the market

STANDOUT PROJECTS 📄

SketchGAN 📄 | (PyTorch, Numpy)

April 2023

- Pytorch** implementation of [CVPR 2019] **SketchGAN**: Joint Sketch Completion and Recognition with **GAN**. Cascade Encode-Decoder network to complete the remaining 25% of input drawing in an iterative manner.

Art-and-The-Artist 📄 | (PyTorch, OpenCV, Numpy)

April 2023

- Neural Style Transfer** featuring real artists, on real-time input. Optimized performance by employing lightweight **residual blocks**. Feature extraction using **VGG19**. To deploy as a web-app demo and AR project.

XLSR for Malayalam ASR 📄 | (PyTorch, Python)

Jan 2023

- Developed a Malayalam speech recognition system using **fine-tuned XLSR** language model and character-level LM. Achieved decent word error rates with a custom dataset and deployed it in HuggingFace.

PUBLICATIONS

- Automatic Recognition of Continuous Malayalam Speech using Pretrained Multilingual Transformers, IEEE Explore 📄

ACHIEVEMENTS

IEEE Xtreme Kerala Programming Competition **Winner** - 2021

TECHNICAL SKILLS

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|-------------|--|
| Experienced | Python, PyTorch, Tensorflow, Git, Pandas, Numpy |
| Comfortable | C++, API Dev, Flask, OpenCV, SQL, PostgreSQL, Prompt Engineering |
| Acquainted | Rust, AWS: SageMaker |

POSITIONS

Vice Chairperson, IET On-Campus CET

Nov 2022 - Present

- Leading the team for IET club activities on campus for the academic year 2023.

Learning Facilitator, Tinkerhub

Nov 2021 - Feb 2022

- Organized **Learning Stations by Tinkerhub**, during Techfest Drishti'22. **170+** People visited.
- Curated learning paths, conducted workshops and courses for the Tinkerhub Community.