



ANSHUL SURESH BANSAL

Contact

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in anshul12256

🔗 Anshul12256

Skills

Speaking Languages:

English - C1

German - B1

Programming Languages & Libraries:

Gstreamer

Python

C++

Java

OpenCL

OpenCV

Machine Learning Frameworks & Libraries:

TensorFlow

Keras

Scikit-learn

Matplotlib

NumPy

Pandas

Tools & IDE:

GitHub

PyCharm

IntelliJ

pgAdmin

Eclipse

Databases:

PostgreSQL

MySQL

Documentation:

Latex

Microsoft Office

An enthusiast AI engineer with an interest in solving complex real-time problems. I possess a working knowledge of tasks such as Optical flow estimation, Image classification, and Segmentation. I have completed my Masters in Computer Science in an international environment and currently working as an AI Engineer. I always try to improve myself and I believe my skills will make me an asset in an organization.

Work Experience

LUVIS AI GmbH

AI Engineer

Hamburg, Germany

July 2021 to Present

- Currently working on the development of Gstreamer plugins, by integrating Nvidia Deepstream and OpenCV libraries.

Software Developer Intern

Apr. 2021 to June 2021

- Developed a Custom overlay plugin for Gstreamer by integrating OpenCV library using C++ and Python.
- **Technologies** - C++, Python, Gstreamer, Meson, Eclipse

Reliance Jio Infocomm Ltd.

System Engineer

Pune, India

Sept. 2017 to Feb. 2018

Roles and Responsibilities:

- Rectified the end-user queries with regards to issues in phone application and providing required solutions.
- Documented user queries, discussions, solutions provided for improved future support.
- Resolved L1 tickets raised, by visiting on-site and fixing faulty pieces of equipment or providing replacements.

Projects

Master's Thesis - MultiFlow: Optical Flow Estimation using Deep Neural Networks

This master thesis deals with the task of estimating optical flow using multiple images (image triplets).

- Improved the current architecture and gained 30% performance.
- Developed a neural network from scratch using a Machine learning framework.
- Performed data handling through Python libraries.
- **Technologies** - TensorFlow, Python, Pandas, NumPy, Matplotlib, Latex.

Master's Project - Customizing Neural Networks on FPGAs

Oct. 2018 to Oct. 2019

Development & implementation of OpenCL kernels of Deep Neural Networks on Intel Stratix 10 FPGAs using OpenCL at Parallel Computing Center at the University of Paderborn.

Roles and Responsibilities:

- Developed custom FPGA Plugin from scratch in C++ to parse OpenCL kernels.
- Manually optimized OpenCL kernels.
- Documented insights, milestones and performance using Latex.
- **Technologies** - C++, OpenCL, GitLab, Intel OpenVINO CV Toolkit

Bachelor's Project - AGMARK Food Product Authorization

Sponsored by - National Informatics Centre

Roles and Responsibilities:

- Developed a Web-based system for food product quality checking and approvals.
- Developed an Android application to track the status of the product in the system.
- **Technologies** - PHP, HTML, PostgreSQL, and Android Studio.

Education

Universität Paderborn, Paderborn (Germany)

Apr. 2018 to Dec. 2020

Master in Computer Science (Informatik)

Focus Areas: Intelligence & Data Science

Final Grades - 2.2 (Note)

Savitribai Phule Pune University, Pune (India)

June 2013 to May 2017

Bachelor of Engineering (Computer Science)

Final Percentage - 70.80 (First Class with Distinction)

Certifications

Udemy Online Courses

TensorFlow 2 and Keras Deep Learning Bootcamp:

- Udemy: UC-IUSTMI5K (No expiration)
- Various Neural Networks were covered such as Artificial Neural Networks (ANNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Natural Language Processing, Autoencoders, Generative Adversarial Networks (GANs).

Complete SQL Bootcamp 2020:

- Udemy: UC-93b534c2 (No expiration)
- Hands-on working with the PostgreSQL database with the pgAdmin tool.
- Performing complex database operation such as joins and aggregation.

Java Programming Masterclass:

- Udemy: UC-0e5498b (No expiration)
- Comprehensive Java Course covering Basic to Advanced topics.