ANISH DAS

ad945@cam.ac.uk | +44-7379444416 | DasAnish | anish-das-ad945

EDUCATION

University of Cambridge | MEng in Computer Science **Oct 2021 - June 2022**

Studying Courses in: Distributed Ledger Technologies, Overview of Natural Language Processing, Probabilistic Machine Learning, Advanced Topics in Machine Learning and Representation Learning on Graphs and Networks.

University of Cambridge | BA in Computer Science achieved Class I **Sep 2018 - June 2021**

- Awarded the **Bateman Scholarship** for excellent performance in Exam.
- 3rd Year(*Part II*): achieved **Class I (**focused on Info Theory, Computer Vision, Machine Learning and Quantum Computing, with dissertation in Cross-Lingual Summarization–Investigating the effect of Translation on Summarization**)**
- 2nd Year(*Part 1*B): achieved Class I mark (remained unclassed due to COVID).

EXPERIENCE

On-Device Learning Intern | Department of Computer Science and Technology **July 2021 - Sep 2021**

- Investigated and Summarized possible reasons for latency in GPU, thus, expanding on the research already done.
- Developed and Optimized matrix multiplication on Mobile GPUs leading to a 200% increase in computation speed
- Utilized further tricks to make the GPU faster than the baseline (CPU).

Natural Language Processing Intern | Department of Computer Science and Technology **June 2019 - Aug 2019**

- Developed a customizable chat-bot using Diaglogflow which eliminated 80% of the programming required.
- Upgraded the graphics kernel for the Virtual Environment making the experience smoother.
- Headed a MineCraft Mod project in a Hackathon with Cambridge Assessment which won the Best Project prize.

PROJECTS

Dissertation Project **Oct 2020 - May 2021**

- Conceptualized and Executed an Investigation of the effect of Translation quality on Summarization quality.
- Built an understanding of the core architecture involved in the project.
- Evaluated the resultant translations and reported the findings in a report. Which achieved a first class mark.

pyopencl-ml **Aug 2020**

- Investigated how to program a OpenCL Kernel & how to build and train an Artificial Neural Network.
- Engineered a machine learning library in python compatible with all hardware accelerators using pyopencl.
- Improved GPU performance on Matrix Multiplication to be 10x faster than baseline-CPU (numpy).

manga-viewer **May 2020**

- Studied web-scraping with Selenium and concurrent programming in python.
- Implemented a web-scraper with Selenium and a GUI with Tkinter in python for scraping and displaying manga.

Automatic Evaluation of R code | 2nd Year Group Project **Mar 2020**

- Headed a group of 6 to build a novel tool for automatic evaluation of R. Achieved 2nd highest score.
- Analyzed core-requirements of Cambridge Spark's EduKate.AI and Assigned roles to the team-members.
- Implemented the validation tool for automatically evaluate R code (check for semantic correctness).

SKILLS

Languages

- **Python** with experience in scientific computing; concurrent programming & ML (***Passed Linked-In assessment***)
- **Java** with experience in serialization, reflection & class loaders; along with concurrency and synchronization
- **C & C++** embedded programming; multi-threading & multiprocessing. (***Passed LinkedIn Assessment***: Top 5%)
- Familiar with: C# (with unity);OpenCL; Ocaml; HTML/CSS/JavaScript; Prolog;

- **Software Development** using object-oriented design; testing; version control & solving problems with logical thinking.
- **Native C++** development on Android using **Android Studios**; Contributing to the alibaba/MNN project: OpenCL Core.
- **Natural Language Processing**: Undertook undergraduate-dissertation project; further pursuing research in Master's.
- **Machine Learning** (***Passed Linked-In assessment***) with Tensorflow/PyTorch: designed LSTMs for analyzing VIX to build a portfolio from the SP500; Achieved *Kaggle Certificates* in Intermediate Machine Learning; worked on Transformers & MobileNetv2