

Arijit Roy

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WORK EXPERIENCE

MICROSOFT | STUDENT AMBASSADOR

Delhi, IN | Apr 2021 – Present

- Conducted workshops on Azure Cognitive and Azure Storage services
- Technologies like Cognitive Services, Azure ML, Blob Storage
- Actively engaged in a community of student ambassadors from around the globe

CPPSECRETS | COMPUTER VISION ENGINEER

Delhi, IN | Sep 2020 - Nov 2020

- Created various computer vision based solutions including LiDAR using monocular camera
- Built object detection algorithms for images and videos
- Fingerprint recognition using OpenCV C++

PROJECTS

REZONANCE | MUSIC STREAMING APP

SK-Learn, SQL, Redis, FastAPI |

- Scrapped data from free music streaming platforms and built a recommendation engine for 200,000+ songs
- Applied TDD to build a REST API using FastAPI, SQL and Redis
- Built a real-time search service with auto-complete and auto-correction with 70 ms per search query

AQUA | DIGITAL EVALUATION PLATFORM

PyTorch, SK-Learn, Azure, Flask |

- Built OCR pipelines to detect text from handwritten assignments and detect plagiarism and check for keywords
- Designed and Built storage solution using Azure Blob Storage
- Implemented a recurrent BERT-based model for question generation in PyTorch

ALPR-INDIA | AUTOMATIC LICENSE PLATE DETECTOR

TensorFlow, OpenCV, PyTesseract |

- Developed a low-latency license plate detector which detects 10 license plates in 70 ms from a single image
- Built OCR service to read text from detected license plates using OpenCV and PyTesseract

REKOGNITION | CONTRIBUTOR

TensorFlow, OpenCV, Django, Docker |

- Migrated entire code-base from TensorFlow 1.x to TensorFlow 2.x
- Implemented various SoTA - RetinaFace, YOLOv3, etc and improved response times by 80%

EDUCATION

B.Tech in Computer Science & Engineering

Jaipur, IN | Jul 2019 - Present

MANIPAL UNIVERSITY

Awards TMA Pai Engineering Scholarship 2019, 2020, 2021

GPA 9.10

ACHIEVEMENTS

Competitive Programming: 5 Star Rating(2053) in Codechef

Hackathons: 3 Hackathon wins in 2021, 2 National, 1 International

SKILLS

Languages: C++, C, Python, Bash

Machine Learning: TensorFlow, PyTorch, SK-Learn, OpenCV

Databases: SQL, MongoDB, Redis, CosmosDB

Development: Django, FastAPI, Flask, Docker, pyTest, WebSockets