SANTOSH UMESH SHET

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EDUCATION

Sri Jayachamarajendra College of Engineering (SJCE), Mysore 2016 - 2020
B.E in Computer Science and Engineering , **CGPA: 9.12 / 10.0**

SKILLS AND INTERESTS

Soft Skills	Leadership, Event Management, Public Speaking, Team Player, Project Management
Programming	C#,C/C++, Python, HTML, PyTorch, Pandas, JavaScript, MSSQL, .NET
Version Control	BitBucket, GitHub,TFS, Jira
Cloud Services	Azure

EXPERIENCE

IT Solutions Analyst, Applied Materials India Oct 2020 – Present

- Developing .NET applications for Integrated Operation Management System and managing project release.
- Developed chatbot using Azure cognitive service to respond to user questions and access management. Optimized user-product shortlist for incident creation using NLP algorithms.

Machine Learning Engineer(Volunteer), Omdena Jan 2021 – Mar 2021
Project: Improving the Lives of Cancer Patients by Identifying Existing Non-Cancer Generic Drugs

- Lead Validation Dataset Team. Studied clinical trials and observational studies in medical journals and identified topics of interest to be annotated using Labelbox given by Reboot RX.
- Implemented NLP models to extract these values and store them in a structured format for analysis.

Research Intern, ML Lab, Indian Institute of Science April 2020 – Aug 2020
Advisor: Prof. and Chair of CSA Chiranjib Bhattacharyya
Project Website: COVID - SWIFT

- Developed COVID-19 Classifier by analyzing Chest X-Ray images with patient report generation in collaboration with Niramai Health Analytix. Service currently used by 246 radiologists and doctors.
- Optimised training with multiple datasets with parallel training of tasks. Achieved recall of 96% and precision of 80% on test dataset from doctors.
- Developed front end web interface using flask and deployed the model. Setting up complete pipelines for automated patient report generation with high reliability as cases (patient Chest X-rays) are time critical.

Research Intern, ML Lab, Indian Institute of Science Jan 2020 – March 2020
Advisor: Prof.Chiranjib Bhattacharyya and Assistant Prof.Soma Biswas

- Trained Yolo V3 and Tiny Yolo V3 models for object detection on Indian Traffic using IDD dataset and tested performance on Nvidia Jetson TX2 for model inference rate.
- Collected and annotated data of traffic on Indian roads with varying distances and varying lighting conditions using web camera. Analysed optimal vehicle speed at which ADAS works best with given hardware.

TALKS

- 24th March 2021 - "Machine Learning Models Eavesdropping on other Models for Better Learning" at Data Days 2021, organised by Software Guru, Mexico.
- 15th June 2020 - "Reviewing Multi Task Learning" at ML Lab, Indian Institute of Science, Bangalore.

CERTIFICATIONS

- JavaScript Essential Training - LinkedIn
- Deep Learning Nanodegree - Udacity
- Neural Networks and DeepLearning - Coursera by Andrew Ng
- Google Cloud Platform Fundamentals: Core Infrastructure - Coursera
- Trinity College London: Arts and Communication

PROJECTS

1. **Classification and Localisation of Non Small cell Lung Cancer using histopathology images**
   Advisors: Prof. and HOD, SJCE Dr. M P Pushpalatha and Oncologist JSS Hospital Dr. Ravi Krishnappan
   - Worked on lung cancer cells detection using whole slide tissue images. Achieved two levels of localisation through heatmap generation using Class Activation Maps i.e i)identify single tile with highest malignancy from whole slide image ii)identify cancerous regions within a tile.
2. **Preventing Cross Border Infiltration using CNN**
   - Developed surveillance system for Motion Detection using Background Subtraction and Classification. Trained using infrared images and normal images to identify intruders during low light illumination setting. Achieved 86% classification accuracy.

HONORS AND AWARDS

- Secured 2nd Place globally "Corporate Culture: Behaviour at Production Site" Impact Challenge by Kazzinc Ltd at Harvard Project for Asian International Relations (HPAIR) - Asia Conference 2019.
- Scholarship Grant from JSS Science and Technology University for HPAIR Asia Conference 2019.
- High Flyers - Make A Difference NGO 2017.
- Student of the Year - St Theresas School -2014.
- Outstanding Academic Performance - 2014.
- Best Wing Platoon Commander 2014 - District Level.

EXTRA-CURRICULAR ACTIVITIES

1. **Lead - Developer Student Clubs - Powered by Google Developers** Feb 2019 - Aug 2020
   - Facilitated Google AI - Explore ML Workshop - trained 140 students on basic and intermediate ML.
   - Initiated Android Dev community by conducting hands-on Android workshop for Differently Abled Students - 52 trained on campus.
   - Talk at BIOS - "DSC Community" an introduction to DSC to an audience of 250+. Reached total of 2200+ students on and off campus by hosting various hands-on training workshops.
2. **Mentor, Make A Difference (MAD), NGO** April 2018 - Jun 2019
   - Developed activities, team bonding sessions, and integrated technology to diversify instruction. Mentored MAD Volunteers as part of ED-Support Team. Piloted City level awareness campaigns and funding. Taught math and science for children at shelter homes 9th and 10th grade.

PUBLICATIONS

- "Easy Complaint with Google Cloud Platform" - IJARCCE (Page 65,Volume 8,Issue 9,Impact Factor 6.672)