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Programming Skills (Full-Stack)

• Proficient: Angular/Ionic/Node, Flask/Python, MySQL, HTML/CSS, Docker, Agile/Kanban

• Intermediate: Git, Confluence/Jira, CI/CD, PHP, Azure, AWS EC2/Lambda/S3, SQLite/MongoDB

Experience (4 years)

AI-Med

Munich, Germany

Assistant Research Scientist

Aug 2020 - Now

- Data Pre-Processing: Built a robust multi-data data pre-processing pipeline for whole-body MRI scans. Worked best for UKB, KORA & NAKO MRI datasets.
- Organ Segmentation: Using state of the art Deep Learning models to build and improve abdomen segmentation for various small to large organs.

Nasscom India

Delhi, India

Freelancer

May 2020 - Aug 2020

- Yes Nancy: A Covid19 related advertising platform for SME's; admin & common platform built with Java Spring Boot & deployed on Azure in a week time. It gets around 1000 hits daily. CI/CD setup, added lazy loading & security changes.
- Whatsapp Business Platform: Built a marketing platform using Node & Whatsapp APIs using Gupshup

AI-Med

Munich, Germany

Apr 2019 - June 2020

Master Thesis and Work Student

o quicknat.ai-med.de: An AI app built with Python/Flask/Docker to visualise brain/wholebody MRI scans and segmentations. Integrated AMI-js for better segmentation visualisation with addition of 3-view display, view aggregation, report generation, uncertainty estimation, age prediction, etc. Deployed on AWS using EC2/S3/Lambda services.

Disney Research Lab

Zurich, Switzerland

Machine Learning Research Intern

Nov 2018 - Feb 2019

• Multi-Modal Audience Understanding: Developed cry & yawn data-set for expressions detection. Used Keras/Python to develop valence prediction network using CNN-Ensemble method on Darn-Good-Yarn dataset.

Pega System

Bangalore, India

Technical Solution Engineer

Mar 2016 - Mar 2017

• Pega Frontend Support: Cleared Pega-CSA certification. Used JS/HTML5/CSS3 to solve core Pega issues raised by clients. Also a part of 'Pega recruitment' and 'UI technology training' team. Trained 5 new joinee.

Tata Consultancy Services Limited

Bangalore, India

System engineer

Mar 2014 - Mar 2016

- Q-Team: A hybrid app built for various usage of Qualcomm and TCS internal employees using Angular 1.0.
- Qualcomm Learning Management System (LearnIt): Developed user, admin module & various CRON task using PHP, jQuery & MySQL. Managed data consistency for the 200,000+ records across 500 tables in the application. Lead a team of 3 people for unit testing. Awarded TCS GEMS award for the good coding skills among 500 others.

Education (Masters)

Technical University of Munich

Munich, Germany

Master of Science in Informatik; (GPA: 2.1, Best: 1.0)

2017 - 2020

- Bayesian Deep Learning in Medical Image Segmentation (MICCAI-MLMI2020 WorkShop
 Accepted): Developed multi way of calculating model uncertainty on KORA, UK-Biobank and NAKO dataset.
 Used PyTorch, R, Scikit, NiBabel, Numpy, Matplotlib, etc. Statistically analyse uncertainty effect of
 liver/spleen segmentation on patients' diabetes state.
- Cracke, HackaTUM-2019 (Allianz challenge: 1st prize out of 37 participants): Developed a mobile app to detect cracks on metal(No Deep-Learning, only Image Analysis) with report generation within 24 hours using Ionic & Angular.
- i-Graph: Used RASA-NLU for human language understanding and querying documents for relevant output.
- Expression Prediction: A course project to implement human facial expression detection regularized by facenet and motivated by FN2EN (Facenet to Expression Net). Used PyTorch, Google Cloud & Jupyter Notebook.

Gandhi Institute of Engineering and Technology, BPUT

Gunupur, India

Bachelor of Technology in Electronics and Communication; (GPA: 8.27, Best: 10.0)

2009 - 2013

• Thesis: Automated railway track crack detection from camera sensor inputs built into a automotive robot.