Summary_

A software developer pursuing a Master's degree in Informatik with a focus in Deep Learning. With over 3 years of experience in designing and implementing features for large products, I am confident in my ability to drive innovative solutions. I am passionate about applying my skills to real-world problems specifically in the area of Deep Learning.

Education

Universität des Saarlandes

Saarbrücken, Germany

M.S. COMPUTER SCIENCE - GPA: 1.9 / 4.0 (1.0 BEING THE HIGHEST)

Oct '21 - Present

- Thesis Lottery Ticket Hypothesis
- Coursework Computer Vision, Neural Networks, Reinforcement Learning, NLP, Image Processing, Quantum AI
- Seminars Pruning DNNs using the Lottery Ticket Hypothesis, Ethics in Al

Manipal Institute of Technology

Manipal, India

B.TECH COMPUTER SCIENCE AND ENGINEERING

Aug '14 - Jul '18

• Coursework - Algorithms, Data Structures, Networks, Databases, Software Engineering, Information Retrieval, Data Mining

Work Experience _____

InspiredResume Remote

Lead Software Engineer Mar '23 - Present

- · Lead Engineer for a Recruiting-based start-up
- · Using LLMs to help candidates with Resume Design, job-specific Cover Letters and Resume Assessment
- · Designing the overall product and engineering the prompts to cover edge cases and provide accurate responses

SAP Labs

Bangalore, India

SOFTWARE DEVELOPER Aug '18 - Sep '21 (3 Years)

- · Designed and implemented features for SAP SuccessFactors: a cloud-based Human Capital Management Solution
- Led to effort to decouple the Agency feature from a monolith into a microservice architecture
- Reduced customer defects and security vulnerabilities for Agency by 50% over 6 months to improve customer experience

SAP Labs Bangalore, India

Machine Learning Intern

Jan '18 - Jul '18 (6 Months)

- Pattern mining on data of a large airline to optimize refueling planes at airports worldwide
- Developed a PoC for a Speech-to-Text API with 80% accuracy for logging flight refuelling tickets
- Built a predictive model to increase team's mobile application usage at large airports

Avagmah Bangalore, India

SOFTWARE DEVELOPMENT INTERN

Jun '16 - Jul '16 (2 Months)

- Wrote complex SQL queries to generate reports on the Analytics Dashboard
- Redesigned Home page using PHP, HTML and CSS

Projects_____

*Project code can be found on my GitHub profile

AffordanceNet

COMPUTER VISION

- Instance Segmentation using the SegFormer architecture to detect the affordances of different parts of objects in an image
- The output of the SegFormer encoder is passed to 2 CNN decoders. One decoder detects the bounding boxes of the object and the other performs pixel-wise affordance detection of the objects detected trained with a joint loss function.

GridWorld

REINFORCEMENT LEARNING

- Optimizing the GridWorld problem where an agent navigates a grid-like environment, aiming to reach a goal while avoiding obstacles, with the
 goal of maximizing its cumulative reward.
- Applying Proximal Policy Optimization (PPO) with Behavioral Cloning to the training data with the goal of learning the optimal policy to transform
 the pre-grid to the post-grid

Semi-Supervised Learning

COMPUTER VISION

- · Showing the scalability of deep neural networks in the absence of large datasets of labeled data
- · Implementation of Semi-Supervised Learning algorithms Pseudo-label (Dong-Hyun Lee et al.), Virtual Adversarial Training (Takeru Miyato et al.), an generalisation of Fixmatch (Kihyuk Sohn et al.)

Recruiting Platform

SOFTWARE ENGINEERING

- · Developed the complete stack for a Recruiting Platform based on an MVC Architecture to manage recruiting pipelines
- · Includes role-based functionalities like Job Posting and Hiring Pipeline for Recruiters; Job Applications for Candidates

Speech to Text API

MACHINE LEARNING

- · Flask framework to convert speech to text using Hidden Markov Models
- · Training audio data with fine-tuning to detect multiple accents

Skills_

Programming Languages Python, Java, C, C++

ML Frameworks Pytorch (basic experience in Tensorflow, Keras)

Web Development Javascript, HTML, CSS, PHP

Frameworks and Tools Git, Linux, MySQL, Docker, Kubernetes, Springboot

Others Deep Learning, Algorithms and Data Structures **Languages** English (high proficiency), German (A1 level)

Achievements

SAP Labs High Achiever, Awarded by VP of Recruiting for leading the launch of the SAP SuccessFactors' first 2019

end-to-end microservice

2017 Rank 203, HackerRank IndiaHacks among 25000+ participants

2014 Rank 1, School Topper CBSE Grade 12 Board Exams among 65 students with 95.8%

2014 INSPIRE Scholarship for Higher Education (SHE), Govt. of India for being in the top 1% of the country

Extracurricular Activity

SAP Labs, Football Team Bangalore, India

MEMBER

· Among the best corporate football teams in Bangalore winning several tournaments

IEEE, Manipal Chapter Manipal, India

Jan '19 - Sep '21

MEMBER Aug '15 - Nov '17

• Part of the Management Committee Organized technical workshops and conferences

MIT Manipal, Football Team Manipal, India

Jan '16 - Nov '17 MEMBER • Represented the college in football

· Captained football club in a semi-professional league