

ATHREYA HOSAHALLI PRAKASH

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EDUCATION

UNIVERSITÄT STUTTGART

Masters in Science (M.Sc) "Information Technology"

Majors in Computer Hardware/Software Engineering

Cumulative GPA: 3.0 /4.0;

Relevant Coursework: Machine learning, Deep learning, Detection and pattern recognition, Discrete optimization

Stuttgart, DE

Expected August 2025

RNS INSTITUTE OF TECHNOLOGY

Bachelors in Engineering with "Honors" (B.E)

Major in Electronics and Instrumentation

Cumulative GPA: 9.1/10;

Relevant Coursework: Embedded systems, ARM Microcontroller, Java, Python, Neural networks

Bangalore, IN

July 2022

WORK EXPERIENCE

UNIVERSITÄT STUTTGART (Institut für Automatisierungstechnik und Softwaresysteme)

Hilfswissenschaftler (HiWi) (Part time)

Stuttgart, DE

Nov 2023 – Present

- Developing Software defined cars (SoftDCar) for improved autonomous navigation and fleet functionality
- Conducting research on autonomous driving using Nav2 and building technologies towards an intelligent fleet of vehicles
- Testing advantages of various autonomous processes in a 5G environment

LIFTOFF LLC.

Software Engineer (Full time)

Bangalore, IN

Sept 2022 – Sep 2023

- Developed NodeJS based backend application development using Hapi.js framework in combination with Knex and Objection.js. Achieved various levels of optimizations and library upgrades.
- Built and deployed robust and failsafe GitHub CI/CD pipelines for auto code verification and deployment.
- Designed high available, minimal latency backend architecture using AWS resources such as Elastic beanstalk, EC2, Elastic container service (ECS) etc.
- Addressed major production issues multiple times on call with minimal down-time

NIRAMAI HEALTH ANALYTICS PVT. LTD.

Software Engineer

Bangalore, IN

Dec 2021 – Sep 2022

- Researched on cancer risk estimation for various types using common survey data from multiple data sources.
- Synthesized and developed a convolutional neural network to achieve the above task with success in accurate prediction even in the presence of incomplete or inaccurate information.
- Conducted experiments in implementing shared task learning with methods such as multi task learning and custom training loops and loss functions
- Built a simple web application using HTML5 and vanilla JavaScript using a python flask application to achieve a usable application for use by live users.

LITTLE HELP TECHNOLOGIES AND SERVICES

Software Engineer (Part time)

Bangalore, IN

Oct 2021 –Jul 2022

- Analyzed and designed the idea for essential software components based on the idea of the startup.
- Designed and built an android application using Android Studio to match the analyzed requirements.
- Built a simple web application using Wix and used modifications to connect web form replies to google docs.

UNIVERSITY PROJECTS

EVENT BASED FRAMEWORK FOR AUTONOMOUS DRIVING

Sep 2024

- Design, Implement and test an autonomous driving use case onto UGVs running on ROS2 and NAV2 stack.
- Set up a cloud backend system using Kubernetes for connected car functionalities and improved fleet functionalities.
- Set up a generic event-based framework to support required use cases.

LIBRARY MANAGEMENT SYSTEM USING SPRING BOOT

Jan 2016

- Created and deployed a simple spring boot application to mimic a library management system using Java spring boot with a mySQL server as database
- APIs to satisfy basic CRUD functionality for all components of the system which was analyzed using “Object Oriented Programming” paradigm

TITANIC DATASET ANALYSIS AND SURVIVAL PREDICTION

Jan 2016

- Analyzed titanic dataset using visualization technics and analytics to detect anomalies and fix them.
- Achieved local testing accuracies of 0.944 and testing accuracy of 0.914

ADDITIONAL

Technical Skills: Java, Python, NumPy, JavaScript, Scikit-Learn, NodeJS, Kubernetes, Pandas, HTML, CSS, AWS, Machine learning, Deep Learning, Data Analytics, Android Studio, SQL, PostgreSQL, TensorFlow

Languages: Fluent in English (Reading and Writing); Basic user in German (A1)

Certifications & Training: Online credited courses at Indian Institute of Technology’s “SWAYAM” program. Formally trained in Machine learning and Java.

Awards: Secured 9th rank in Bachelors in the university, academic certificate for the “best outgoing student in academics” for the year 2022.