

DEEPAK RAMANI¹

Chennai, India • +91 883-801-3495 • deepak.ramani@rwth-aachen.de • [linkedin.com/in/deepakr05](https://www.linkedin.com/in/deepakr05)

SUMMARY

Highly motivated software Engineer with a passion for data engineering, DevOps, and machine learning. Experienced in developing and deploying scalable and reliable software systems. Proven ability to work independently and as part of a team to solve complex problems. Seeking a challenging opportunity in Germany where I can use my skills and experience to make a positive impact.

EDUCATION

RWTH Aachen University , Aachen, Germany	2011 – 2020
M. Sc. Communication Engineering, GPA: 2.1 / 5.0 (1.0 = excellent)	
SASTRA University , Tanjore, India	2005 – 2009
B. Tech. Electronics and Communication Engineering, GPA: 8.3 / 10.0	

EXPERIENCE

Master Thesis , RWTH Aachen University – Aachen, Germany	Apr – Sep 2020
<ul style="list-style-type: none">Implemented an end-to-end autonomous driving system using a simpler CNN model architecture.Collected and processed over 500k multi-modal sensor data using the LGSVL simulator and ROS, ensuring high-quality input for the system.Analyzed and preprocessed data using Python, Numpy, and OpenCV libraries, reducing memory consumption by 65% and model training time using Keras / Tensorflow by at least 30%.Successfully demonstrated the effectiveness of fusing techniques for night-time driving and collision avoidance within the implemented system. Read more about the project on Github.	
Full Stack Engineer , Part-time - local supermarket – Aachen, Germany	2018 – 2019
<ul style="list-style-type: none">Designed, developed and maintained an efficient inventory management system using Python, Flask and sqlite3.Generated monthly sales report, enabling the management to stock up on essential, fast selling items.	
Assistant , Part-time - Various – Aachen, Germany	2016 – 2017
<ul style="list-style-type: none">Supported professors by setting up and recording lectures, editing them using Adobe Premiere, and uploading them to the student hub, ensuring smooth access to educational materials.Maintained accurate records of financial transactions for a dormitory in Studierendenwerk Aachen, utilizing MS Excel and Python to efficiently manage bookkeeping activities.	
Software Developer Intern , Ericsson GmbH – Herzogenrath, Germany	2013 – 2014
<ul style="list-style-type: none">Contributed to the automation framework, saving regression testing time by more than 30% on each run. Built with Java, SQL, and TestNg / JUnit.Enhanced Cloud Infrastructure team's system health check library by 10%.	
Systems Engineer , Infosys Technologies Limited – Chennai, India	2009 – 2011
<ul style="list-style-type: none">Supported business applications necessary for inter-bank payment systems catering to high net-worth clients for Royal Bank of Scotland.Monitored alerts and collaborated with multidisciplinary teams to ensure minimal impact on services.Rated highly for team performance and client service, with a score of 6/7 on performance rating.	

¹Blog - <https://dr563105.github.io/>

PERSONAL PROJECTS

Sales Forecasting Application | *Python, AWS, Prefect, MLFlow, Docker*

- Implemented a ML pipeline to simulate production environment.
- Sourced, preprocessed sales data from Kaggle using Pandas.
- Orchestrated and tracked ML model training(LGBM) with Prefect and MLflow.
- Automated batch deployment of the best model using AWS services such as API Gateway, Lambda(serverless) and ECR. Managed infrastructure with Terraform.
- Streamlit deployment of the [app](#). Check out the code on [on Github](#).

PERSONAL SKILLS

Languages: English(fluent), German(B2,1 - working proficiency)

Social Skills: Team player, hard and efficient worker, versatile, independent and integrate well with people across different cultures

Hobbies: Reading books, gardening, blogging, cooking