

# DEEPAK RAMANI<sup>1</sup>

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## 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

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

## EXPERIENCE

<b>Master Thesis</b> , RWTH Aachen University – Aachen, Germany	<b>Apr – Sep 2020</b>
<ul style="list-style-type: none"><li>Implemented an end-to-end autonomous driving system using a simpler CNN model architecture.</li><li>Collected and processed over 500k multi-modal sensor data using the LGSVL simulator and ROS, ensuring high-quality input for the system.</li><li>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%.</li><li>Successfully demonstrated the effectiveness of fusing techniques for night-time driving and collision avoidance within the implemented system. Read more about the project <a href="#">on Github</a>.</li></ul>	
<b>Full Stack Engineer</b> , Part-time - local supermarket – Aachen, Germany	<b>2018 – 2019</b>
<ul style="list-style-type: none"><li>Designed, developed and maintained an efficient inventory management system using Python, Flask, sqlite3, HTML and CSS.</li><li>Created a straightforward UI for simplified, faster, more accurate data entry. Automated report generation saving valuable time.</li><li>Minimized bookkeeping workload by an impressive 65% while ensuring seamless succession planning through comprehensive documentation.</li></ul>	
<b>Assistant</b> , Part-time - Various – Aachen, Germany	<b>2016 – 2017</b>
<ul style="list-style-type: none"><li>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.</li><li>Maintained accurate records of financial transactions for a dormitory in Studierendenwerk Aachen, utilizing MS Excel and Python to efficiently manage bookkeeping activities.</li></ul>	
<b>Software Developer Intern</b> , Ericsson GmbH – Herzogenrath, Germany	<b>2013 – 2014</b>
<ul style="list-style-type: none"><li>Contributed to the automation framework, saving regression testing time by more than 30% on each run. Built with Java, SQL, and TestNg / JUnit.</li><li>Enhanced Cloud Infrastructure team's system health check library by 10%.</li></ul>	
<b>Systems Engineer</b> , Infosys Technologies Limited – Chennai, India	<b>2009 – 2011</b>
<ul style="list-style-type: none"><li>Supported business applications necessary for inter-bank payment systems catering to high net-worth clients for Royal Bank of Scotland.</li><li>Monitored alerts and collaborated with multidisciplinary teams to ensure minimal impact on services.</li><li>Rated highly for team performance and client service, with a score of 6/7 on performance rating.</li></ul>	

<sup>1</sup>Blog - <https://dr563105.github.io/>

## PERSONAL PROJECTS

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### **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

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**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