

Geethasri Ramkumar

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TECHNICAL SKILLS

Languages	Python, R
Frameworks/Tools	Git, SQL, OpenCV, Docker, AWS-S3, Kubernetes, garden.io, SVN, Hadoop, Spark, Sqoop, Hive, Tableau, Google Analytics
ML Algorithms	PCA, SVM, Decision Tree, Random Forest, KNN, K-means
DL Architectures	MLP, CNN, Auto-encoders,
Libraries	Scikit-learn, TensorFlow, Keras, pandas, Matplotlib, NumPy, Scipy, Nltk, spacy

EDUCATION

Hochschule für Technik Stuttgart, Stuttgart, Germany <i>Master of Science in Software Technology</i>	March 2017 – Feb 2019
Anna University, Chennai, India <i>Bachelor of Electronics and Instrumentation Engineering</i>	Aug 2008 – May 2012

EXPERIENCE

Diconium Data Gmbh - Volkswagen Group, Stuttgart, Germany <i>Job title: Data Scientist</i>	Feb 2020- Oct 2021
<ul style="list-style-type: none">Developed a similarity-based recommendation model in python that suggests cars that are closer to the user-selected cars to improve the customer experience for Volkswagen resulting in a 5% increase in revenue during the first month of the model release.Developed a logistic regression model in python to predict the effectiveness of vehicle financing offer with respect to the user and extracted the contributing factors resulting in improved customer response rate and loan availing conversion with the bank.Created S3 buckets using terraform for data storage as part of infrastructure migration on AWS.Performed data analysis and visualizations to derive insights and monitor users, and products of a manufacturer using the Mapp Intelligence tool.	
Mercedes-Benz Consulting GmbH, Stuttgart, Germany <i>Job title: Consultant - AI & Advanced Analytics</i>	April 2019-Dec 2019
<ul style="list-style-type: none">Trained an MLP model in python to predict the turbocharger speed in engines for Daimler trucks. The resultant model was used to mimic the turbocharger environment and use it for performing their tests. As a result, the wait times at the test bench were reduced by 17%, and also the risk of engine wear due to frequent testing in physical engines.Performed data assessment to build spell check assistant (NLP) for Mercedes-Benz customer assistance center using spacy, nltk in python. This helped our client to decide whether they required a customized spell check assistant for their email system.	
Mercedes-Benz Consulting GmbH, Stuttgart, Germany <i>Job title: Data Science Intern (Master Thesis)</i>	July 2018 – January 2019
<i>Thesis topic: "Conception of a model to predict future developments in the Customer Satisfaction Index (CSI)"</i> <ul style="list-style-type: none">Extracted data from the PostgreSQL database.Reduced dimensionality of the features using neural network-based Autoencoder.Trained two separate models, one with deep neural networks and the other with random forest in R to predict the customer satisfaction index of luxury cars.Presented the results and suggestions to improve CSI, based on analysis of the results.As a result, the company could identify its position among its competitors and enhance its marketing process.	
Robert Bosch power tools GmbH, Stuttgart, Germany <i>Job title: Data Science Intern</i>	March 2018 – May 2018
<ul style="list-style-type: none">Migrated data from Bosch power Tools relational databases to Hadoop Distributed File System (HDFS) using Sqoop for advanced data analytics.Automated the migration process using Crontab and Python scripts.Predicted the intra-month demand for Bosch power tools using Deep Neural networks, HDFS, Spark, scikit-learn, and Hive.Developed a second model using Keras with the same data and features.The prediction results were used for future production planning to replace the current prediction methods.	

- Presented the results portraying the advantage of the Hadoop ecosystem for advanced analytics over relational database systems.

Hochschule für Technik Stuttgart, Stuttgart, Germany

March 2018 – July 2018

Job title: Teaching Assistant

- Developed projects with **neural networks** using **Keras** with open-source data sets.
- Presented the projects during lab sessions for teaching purposes, portraying the pipeline of a machine learning process

HCL Technologies Ltd., Chennai, India

January 2014 - June 2016

Job title: Software Developer

- Developed software using **c++** and maintained an AVCS application based on the standard DO-178B for Lord corporation, USA to suppress the vibrations in the cockpit of choppers.
- Created test plans and test scenarios according to the requirements using the LDRA test tool. As a result, the vibrations in the cockpit were reduced by 20%.
- Built a **logistic regression model** in **python** as a proof of concept to classify low/high-risk *customers and predicted the likelihood that a customer fails to pay the due* in order to prioritize and optimize the due collection process.
- Predicted customer sentiments from emails as a proof of concept for overall customer experience evaluation on a periodic basis using a **logistic regression model** in **python**.

Amazon Development Center, Chennai, India

April 2013 - January 2014

Job title: Retail Associate

- Calculated costs and analyzed prices with different internal tools and MS Excel.
- Did deep dives on the competitive study and created shortcuts by reducing the manual resource using **python**.

CERTIFICATIONS AND ACTIVITIES

- Certification in "Deep Learning & Neural Networks" conducted by Prof. Andrew Ng (Stanford University, USA) and NVIDIA Deep Learning Institute.
- Certification in "Building a Recommendation System with Python Machine Learning & AI" at Lynda.com
- Student commission representative for M.Sc. Software Technology at Hochschule für Technik Stuttgart.
- Member of organizing committee for intercultural training at Hochschule für Technik Stuttgart.
- Certified SAFe practitioner.

SPOKEN LANGUAGES

Languages	English(Full professional proficiency), German (Limited working proficiency)
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