BALAHARI VIGNESH BALU

DEEP-LEARNING ENTHUSIAST
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COURSE WORK

- International project management
- Internet and network Technologies
- Artificial Intelligence
- Software Architecture and Development
- Software Development Practices
- Advanced Databases
- Advanced Computer Science

LINKS

 @ Balahari-srh

 @ Balahari Vignesh

LANGUAGE

English
German
Tamil
Hindi

EDUCATION

MASTER'S IN APPLIED COMPUTER SCIENCE
SEPTEMBER 2019 - PRESENT
SRH Hochschule, Heidelberg, Germany (1.4)

BACHELOR'S IN COMPUTER SCIENCE AND ENGINEERING
JULY 2011 - MAY 2015
Anand Institute of Higher Technology, Chennai, India (7.22/10.0)

EXPERIENCE

SOFTWARE DEVELOPER-INTERN • BAYES LABS
MARCH 2019 – JUNE 2019

- Co-organised boot-camps focused on Machine/Deep Learning as a part of Bayes Labs meetup community.
- Created iPython Notebooks for the participants to work using Google Collaboratory to acquire introductory knowledge across different applications of deep learning.

SOFTWARE DEVELOPER-INTERN • DAZTA TECHNOLOGIES
AUGUST 2017 – MARCH 2018

- Performed Exploratory Data analysis using Numpy, Pandas, Matplotlib libraries in Python. And developed machine-learning models.

ENDPOINT SECURITY ADMINISTRATOR • WIPRO TECHNOLOGIES
OCTOBER 2015 – JULY 2017

- Handled the suite of Cybersecurity software products across 3 different regions North America, Asia Pacific, and Europe Middle-East Asia.
- Worked on security applications connectivity with Wipro's AI bot Holmes through Wipro's internal platform.

SKILLS

Familiar Languages: Python, Java, JavaScript, C, C++, C#

Web technologies: HTML, CSS, NodeJS, ReactJS, Express

Databases: MongoDB, Neo4j, Redis, SQL

Other Technologies: Git, Docker, ROS

Familiar Tools: Jupyter Notebook, Google Colab, Eclipse, MS Visual Studio, Visual Code

Familiar Libraries: Pandas, Numpy, Keras, Plotly, MatPlotLib, Seaborn, Scikit Learn, Tensorflow, PyTorch

HOBBIES

Cycling – Completed more than 1000kms of cycling around Heidelberg.

Running – Completed 7 marathons in 2019

Reading Books

PROJECT EXPERIENCE

GERMAN TRAFFIC SIGN RECOGNITION
- Developed a multi-class image classifier for recognising German Traffic Signs.
- Implemented a CNN architecture on TensorFlow framework.
- Fine-tuned hyper-parameters to achieve better validation accuracy.

COVID – 19 DASHBOARD FOR BADEN WÜRTTEMBERG
- Developed a dashboard for the state of Baden Württemberg using live COVID data from Robert Koch Institute API.
- The application finds the shortest and safest path (using Dijkstra's algorithm on Neo4j) to the airports in Baden Wurttemberg based on present day count of corona cases in every Landkreis.
- Project was developed using three databases – MongoDB, Neo4j, Redis with a REST API and implemented using docker.

SPORTIFY APP
- Developed web application to host and join sports events by individuals.
- Web CRUD application was developed on MERN stack and implemented in Docker.
- Implemented Continuous Integration and Continuous Delivery using Github workflows to deploy in Dockerhub.

NOTE TAKING APPLICATION
- Developed a windows desktop application on C# using Windows Presentation Forms to take class notes for students.
- Application followed the Gestalt principles, ISO 9241 rules for software ergonomics and concepts like internationalization and globalization.

HR MANAGEMENT
- Developed HR management application using J2EE and MySQL for employees and HR.
- HR could login, add, delete, edit and update employee details including leave approvals.