

Sayali Patkar

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EDUCATION

- **Fachhochschule Kiel** Kiel, Deutschland
Masters Information Engineering (Intelligent Systems); Grade: 1.70 Sept. 2016 – Present
- **Watumull Institute affiliated with Mumbai University** Mumbai, India
Bachelor of Engineering in Electronics and Telecommunication; Grade: 2.30 Jul. 2009 – May. 2013

ACADEMIC PROJECTS

- **Master Project** Fachhochschule Kiel Apr. 2018 – Present
 - **Convolutional Neural Networks:** worked on Phillips Research's "Biomedical Joint Detection Project" written with Python and TensorFlow using UNET CNN
 - **Literature Suvey:** studied various traditional as well as state-of-the-art loss functions and their application and incorporated them in existing code
 - **Implementation and Analysis:** developed logic for calculation and visualization performance measuring metrics and compared different results
- **Pattern Recognition** CAU, Kiel Sept. 2017 – Feb. 2018
 - **Probability Calculus:** studied theoretical aspects like Maximum-Likelihood Estimation, K-nearest neighbors etc. that form basis of many ML algorithms and programmed applications demonstrating their practical usage
 - **Image Processing:** studied and gained hands on experience on image processing using MATLAB
- **Sentiment Analyzer** Fachhochschule Kiel Mar. 2017 – Jul. 2017
 - **Natural Language Processing:** studied basics of NLP and sentiment analysis
 - **Full Stack Development:** developed fully functional C# application performing sentiment analysis using Bing API and AFINN library
- **BuzzBeeper - TV Series Tracker** Fachhochschule Kiel Sept. 2016 – Feb. 2017
 - **Leadership:** lead a team of 5 to develop full-stack web application using node.js, angular.js and web-sockets
- **Bachelors Project** Mumbai University Jan. 2013 – May. 2013
 - **Wireless Sensor Network with Siemens:** as a trainee at Siemens designed and developed a sensor network that communicates with centralized micro controller using ZigBee wireless protocol

INDUSTRIAL EXPERIENCE

- **Ergovia GmbH, Kiel** Part-time Software Developer Apr. 2017 - Jan. 2018
 - **Connection Pool Migration:** conducted research on connection pool options which can support massive data transfer and migrated from C3PO to Hikari CP
 - **Java 8 and Spring:** migrated outdated application to Spring-boot and Java-8 application that uses REST-API
- **Capgemini India Pvt. Ltd.** Associate Consultant Dec. 2013 - Aug. 2016
 - **Quick Learning:** worked on various projects that required quick grasp on everchanging technical requirements like spring-integration, spring-security, mocking and unit testing, server configurations and scripting
 - **Agile Development:** worked on HSBC's banking and insurance projects that followed Agile Development Model
 - **Work Experience in Multi-city Team:** worked in multi-city teams on tight development and testing schedules
 - **Client Handling and Communication:** communicated with client on regular basis to understand entity specific requirements, defect resolutions and code deployments

TECHNICAL SKILLS

- **Languages:** Python, Java, MATLAB, Javascript, C#, SQL
- **Libraries / Technologies:** scikit-learn, TensorFlow, OpenCV, AWS, IBM Websphere
- **Relevant Coursework:** Neural Networks, Cognitive Consulting, Requirement Engineering, Pattern Recognition, Advanced Application Systems Development
- **Publication:** Wireless Sensor Networks using ZigBee : IRNET International Conference, March 2013