

# ABHISHEK KUMAR REDDY GOTIKE

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## Education

**Worcester Polytechnic Institute (WPI), Worcester, MA**

**Expected: May 2023**

- Master of Science (MS), Computer Science, CGPA: 3.87/4.0

**Manipal Institute of Technology, Manipal, India**

**Jul 2017**

- Bachelor of Technology, Electronics and Communication Engineering

## Technical Skills

**Programming:** Data Structures, Python, Java, SQL, HTML, CSS

**Tools:** AWS-Lambda, S3, RDS, MySQL, Git, Jira

**Frameworks & Libraries:** Bootstrap, Junit, Pandas, Numpy, Scikit-learn

**Relevant Coursework:** Design of Software Systems, Algorithms, Computer Networks, Deep Learning, NLP

## Work Experience

**Research Assistant, WPI**

**Jan 2022 - Present**

- Designed and built machine learning models to predict K to R award success patterns using **Python** and scikit-learn libraries by evaluating impact of scholarly achievements, career-trajectory and fairness in allocating funds resulting in a model with **85%** accuracy.
- Developed a csv parser in python to extract raw data from Pubmed, PMC and other external databases consisting of more than **100,000+** samples of data across multiple datasets.

**Software Engineer – Mercedes Benz R&D, India & Germany**

**Jul 2017 - May 2021**

- Developed a framework to generate parameters that define the behavior of static and dynamic models in simulation using **Python** and **object-oriented design** that resulted in generation and continuous update of **5000+** simulations with no human intervention.
- Developed automation for simulation measurement analysis using **Python** resulting in a reduction of software evaluation time by **90%** thereby expediting SW development.
- Designed and built a POC to automate HiL tool chain using **Python** to facilitate continuous integration and testing thereby reducing downtime by **15%**.

## Projects

**Algorithm Management System**

**Oct 2021**

- Developed backend of the web application using **Java, MySQL, AWS** based on MVC design paradigm where individuals can share their algorithm along with other parameters in an ontological approach.

**Triangle Puzzle App**

**Aug 2021**

- Developed a standalone triangle puzzle game app using **Java**, Swing GUI based on MVC design paradigm.

**SDN based DDoS prevention using Machine Learning**

**Oct 2022**

- Designed and built ML models using **Python** and scikit-learn to distinguish attack traffic from normal traffic which was tested by integrating it onto the controller plane of SDN, simulated on Mininet.

**Title generation for news articles**

**Dec 2021**

- Designed and built Deep Learning models to generate abstractive summarization of new articles using Pytorch that resulted in T5 and BART models outperforming LSTM with pointer generator network by producing meaningful summaries.

## Awards and Leadership Roles

- Xtreme Award - Recognized at the organization level for supporting other business units within Daimler during the COVID-19 pandemic. **Apr 2021**
- Led a team of 10 members during a tough release phase assisting with technical challenges and coordinating with the various stakeholders during absence of the project manager. **Aug 2019**
- Bronze Star – Awarded for displaying one of organization's core principles – Agility **Jul 2019**