

# Abhijeet Parida

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## Education

### Technical University of Munich

M.S. IN COMPUTATIONAL SCIENCE AND ENGINEERING, GPA- X.X\*

- Programming Course- Numerical Programming Scientific Computing, Parallel Programming
- Machine Learning Course- Data Mining, Engineering Data Analysis, Statistical Modelling and Machine Learning

Munich, Germany

Oct 2016- till date

### Amrita School of Engineering (Amrita Viswavidyapeetham,Coimbatore)

B.TECH IN MECHANICAL ENGINEERING,CGPA- X.XX/10\*\* (FIRST CLASS WITH DISTINCTION(INTERNATIONAL INTERN))

Bangalore, India

Aug. 2012 - May 2016

- Courses-Fundamental Algorithms, CAD/CAM, CAE

## Experience

### Werkstudent

UNTERNEHMERTUM, GARCHING

Jan. 2018- till date

- Investigating Deep Learning prospects for a BMW Project "Automated Assignment of Measurement Points in Automotive Assembly"

### Wissenschaftliche Hilfskraft(Research Assistant)

CENTER FOR ENERGY MARKETS, TU MUNICH

Oct. 2017- till date

- Web Scrapping and Data Mining EURIBOR rates

## Skills

### Language Tools

C/C++, CUDA, openMP, MPI, Python ,MATLAB, Julia, R, Arduino  
Microsoft Office,CATIA , Ansys Workbench, openFOAM,LateX

## Open-source Contributions

### [QuantEcon.jl](#)

Julia implementations of the QuantEcon library.

## Technical Projects

### Total Variational Blind Deconvolution on CUDA

GPU PROGRAMMING FOR COMPUTER VISION, TU MUNICH

May. 2017- Sept. 2017

- Implementation of [Blind Deconvolution](#) of an image on CUDA.

### Statistical Modeling of Bundesliga Football Matches

STATISTICAL MODELING AND MACHINE LEARNING, TU MUNICH

Apr. 2017 - Jun. 2017

- Best student project for SS2017.
- Predicted individual [game outcomes](#) based on the team performance of past 5 seasons using R

### Monte Carlo Simulation Based Flood Forecast

ENGINEERING DATA ANALYSIS, TU MUNICH

Apr. 2017 - Jun. 2017

- Predicted the chances of a flood using [Monte Carlo](#).

### Direct Numerical Simulation of Secondary Atomisation of a Drop in Air

SUMMER INTERN,TU MUNICH

Mar. 2016 - Oct. 2016

- Parameter study on the  $We_c$  v/s Shock Strength in predeveloped C/C++ codes to simulate bubble breakup in air

### Design and Analysis of a Mach 8 Waverider

HYPERSONIC LAB, AMRITA UNIVERSITY

Oct. 2015-Mar. 2016

- Helped setup the first Hypersonic Shock Tube in a private University in India
- Parameter study on the shapes and performance of a Mach 8 Waverider using ANSYS Workbench and verified results in ShockTube.

## Presentations

2018 [Intro to NumPy for Engineers](#), Workshop at Amrita School of Engineering

Bangalore, India

2018 [Poster:Knowledge Transfer on Stackoverflow a Indicator of Migration](#), Seminar,Computational Social Choice

Munich, Germany

2018 [Poster:Facial Expression Prediction](#), Course, Deep Learning for Computer Vision

Munich, Germany

2015 [Poster:Biomass Fuel Briquettes](#), Indo-Dutch International Conference, Design for Sustainable Well Being

Bangalore, India

## Honors & Awards

2015 **Finalist**, Poster Presentation, Indo-Dutch International Conference, Design for Sustainable Well Being

Bangalore, India

2014 **Second & Best Overall Concept**, All Terrain RC Car Race, Pravega, IISc

Bangalore, India

2014 **Third**, Grid Solver Robot, graVITas, VIT

Vellore, India