Abhijeet Parida

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Education

Technical University of Munich — *Munich, Germany*

M.S. in Computational Science and Engineering, GPA- 2.3* — *Oct 2016- till date*

- Machine Learning Course- Data Mining, Engineering Data Analysis, Statistical Modeling and Machine Learning
- Deep Learning Course- Deep Learning for Computer Vision, Advanced Deep Learning for Physics

Amrita School of Engineering (Amrita Viswavidyapeetham, Coimbatore) — *Bangalore, India*

B.Tech in Mechanical Engineering,CGPA- 8.54/10** (First Class with Distinction(International Intern)) — *Aug. 2012 - May 2016*

- Programming Course- Numerical Programming, Scientific Computing, Parallel Programming
- Courses-Fundamental Algorithms, CAD/CAM, CAE

Experience

Werkstudent

Analytics Technology, Allianz SE — *Oct. 2018- till date*

- Investigated Semi-supervised Semantic Segmentation Models for car parts segmentation

Werkstudent

UnternehmerTUM Projekt GmbH, Garching — *Jan. 2018- Aug. 2018*

- Investigated Generative Deep Learning methods for a BMW Project "Automated Assignment of Measurement Points"

Wissenschaftliche Hilfskraft(Research Assistant)

Center for Energy Markets, TU Munich — *Oct. 2017- till date*

- Web Scrapping and Data Mining EURIBOR rates

Skills

Language C/C++, CUDA, openMP, MPI, Python ,MATLAB, Julia, R, Arduino

Tools Microsoft Office,CATIA , Ansys Workbench, openFOAM,LateX

Technical Projects

Physics Aware Conditional Generative Adversarial Network

Advanced Deep Learning for Physics, TU Munich — *Oct. 2017- Jan. 2018*

- Tensorflow based Implementation of conditional GAN to solve Smoke Simulation on high resolution grids.

Modeling Rumors

Master Seminar: Computational Social Science, TU Munich — *Oct. 2017- Jan. 2018*

- Python based Implementation of Modeling Rumors in a society.

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

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

2018 **Winner**, Texas Instruments Smart City Hackathon — *Friesing, Germany*

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

2014 **Third**, Grid Solver Robot, graVITas, VIT — *Vellore, India*

* GPA: 1,0 - 1,5 very good, 1,6 - 2,5 good, 2,6 - 3,5 satisfactory, 3,6 - 4,0 sufficient, 4,1 - 5,0 fail.

** CGPA: 10-8 First Class , 8-6 Second Class,6- 5 Pass