





JANMAJAY KUMAR


Master of Science in Astro and Particle Physics

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 GitHub QED137



WORK EXPERIENCE

Research assistant
Department of Physics, University of Tübingen
February 2022- June 2023 Tübingen, Germany

- Monte Carlo Simulations using C++ based GEANT4 framework, developing neutron tagging facility for LEGEND100 Experiment
- Data Analysis with C++ based ROOT framework, and Python

Lab Supervisor Neutron Activation Experiment
Eberhard Karls University Tübingen
August 2022 - June 2023 Tübingen, Germany

Taught at Bhabha Institute of Technology Kanpur
July 2014 - May 2017 Kanpur, India

- Statistics with Python
- Lab Courses on Radiation Physics

PROJECTS

- Project on Non-pertubative field theory
Indian Institute of Technology, Delhi, India, December 2017 – July 2018
- Monte Carlo simulation of Mass Transport Model and Applications in python
January 2012- May 2013
- Machine learning project: Higgs Boson Challenge on Kaggle
October 2023
- Out of Distribution Computer Vision Challenge, December 2023

EDUCATION

Master of Science in Astro and Particle Physics
Eberhard Karls University Tübingen
October 2018 - October 2021 Tübingen, Germany
CGPA: 1.58

Master of Science in Physics
Indian Institute of Technology Delhi
July 2011 - May 2013 Delhi, India
CGPA: 6.67/10

CERTIFICATES

- Java Programming: Solving Problems with Software July 2023, Certificate
- IBM: Web Development with HTML, CSS, JavaScript Certificate
- IBM: Cloud Computing Certificate
- Machine Learning Specialization at Coursera, August 2023.Certificate
- Deep Learning Specialization at Coursera, October 2023. Certificate

SUMMARY

Problem ⇒ Programming ⇒ Production

TECHNICAL STRENGTH

GEANT4

C++

TensorFlow

Linux

Python

Matlab

R

Git/GitHub

SKILLS

Monte Carlo Simulation

C++

Python

TensorFlow

PyTorch

Java

Docker

Applied Mathematics

Computational Physics

Simulations

Statistics

Data Analysis

REFEREES

Prof. Dr.Josef Jochum
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Eberhard Karls Universität Tübingen, Germany

D. Shahid Khan
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CERN, Geneva

LANGUAGES

English

German