

# JANMAJAY KUMAR

Master of Science in Astro and Particle Physics

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## 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-perturbative 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  $\Rightarrow$  Programming  $\Rightarrow$  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

Dr. Shahid Khan

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 CERN, Geneva

## LANGUAGES

English

German

