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Amersfoort, the Netherlands

## Languages

English, Hindi, Punjabi (Proficient)  
Marathi (Basic)  
Dutch (A0-A1)

## Education

### PhD, Solid State Physics

Homi Bhabha National Institute, Mumbai  
August 2019 - June 2024

### Trainee Scientific Officer

Bhabha Atomic Research Centre,  
Mumbai  
August 2015 - July 2016  
Final score: 84.5 %

### Integrated Master of Science

UM-DAE Centre for Excellence in  
Basic Sciences, Mumbai  
August 2010 - June 2015  
CGPA : 8.74/10

## Courses

Python for Datascience, AI and development  
IBM

An introduction to Credit Risk Management  
TU Delft (audited)

IBM Datascience professional certificate  
IBM (ongoing)

# HARSH BHATT

PhD, Physics | Datascientist



## Profile

I am an experimental physics researcher with several years of experience in advanced data analytics. My work has involved the handling and interpretation of large and complex datasets, including data preprocessing, modelling and building data-driven narratives. My work has involved leading projects and interdisciplinary collaborations, leading to 20+ publications in international peer-reviewed journals. I am now interested in applying my analytical skillset to the domain of quantitative research and financial risk management. I bring a rigorous scientific mindset, strong proficiency in analytical tools and a proven ability to model and analyse complex systems, and communicate findings effectively.



## Work Experience

Sept 2024

-  
Present

### Postdoctoral Researcher

#### University of Twente (XUV group)

Enschede, The Netherlands

#### Researcher and Instrumentation Scientist

- Investigation of structure-property relations in Piezoelectric films for adaptive optics applications

Aug 2016

-  
Sept 2024

### Scientific Officer (C, D)

#### Bhabha Atomic Research Centre (BARC)

Mumbai, India

#### Researcher and Instrumentation Scientist

- Responsible for operation, maintenance and development of Polarized Neutron Reflectometry (PNR) beamline at the Dhruva research reactor, BARC, Mumbai.
- Synthesis of bulk perovskite oxides and thin film heterostructures and their characterization using various techniques.
- Study of depth-dependent and interfacial magnetism
- Teaching experience in advanced neutron scattering courses and mentoring students in various projects



## Skills

### Programming and Visualization Skills

Python (Numpy, Scipy, Pandas, JuPyter), Fortran, Matlab, SQL  
Python (Matplotlib, Seaborn), Origin, GNUplot, Power BI

### Writing and Presentation

MS Office, LaTeX

### Soft Skills

Academic Writing, Public Speaking and Presentation, Effective Communication, Team work, Independence, Efficiency, Critical Thinking, Creativity