

# Subham Patel

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## EDUCATION

- **Indian Institute of Science Bangalore** Bangalore, India  
Aug 2023 - Present  
*Ph.D. in IISc Mathematics Initiative*  
Cumulative Performance Index(CPI): 8.20
- **National Institute of Technology** Rourkela, Odisha, India  
Aug 2018 - May 2023  
*Integrated M.Sc. in Mathematics*  
Cumulative Performance Index(CPI): 8.23
- **National Institute of Technology** Rourkela, Odisha, India  
Aug 2019 - May 2023  
*Minor in B.Tech Electrical Engineering*  
Cumulative Performance Index(CPI): 8.24
- **DAV Public School Jharsuguda** Odisha, India  
July 2015 - May 2017  
*Higher Secondary Examination (12th)*  
Percentage: 86.8%

## ACHIEVEMENTS AND QUALIFICATION

- Secured **AIR 144** (98.94 percentile) in **GATE** (Mathematics) 2022.
- Secured **AIR 130** in **CSIR NET(LS)** (Mathematics) 2022.

## RESEARCH AREA

Deep Learning, Machine Learning, Wavelet Method for Scientific Computing, Differential Equation, Fractional Partial Differential Equation.

## ACADEMIC PROJECTS

- **Numerical Method for Time Fractional Convection Diffusion Reaction Equation.** NIT Rourkela, India  
Jan 2023-April 2023  
Advisor - Prof. Ankur Kanaujiya  
Used Caputo fractional derivative for time and compact finite difference scheme in space for solving the time fractional convection diffusion reaction equation.
- **Finite Difference Method for Black-Scholes Equation.** NIT Rourkela, India  
Aug 2022-Nov 2022  
Advisor - Prof. Ankur Kanaujiya  
Learned Compact Finite Difference Scheme to find the numerical solution of Time Fractional Black-Scholes Equation.
- **Application of Quadrature Method for solving Integrals and Integral Equation.** IIT Ropar, India  
May 2022-Jul 2022  
Advisor - Prof. Subash Chandra Martha  
Worked on 'Solving Integral and Integral Equation using Quadrature Method' and its application for solving Partial Differential Equation.

## TECHNICAL SKILLS

- **Programming Languages :** Python, C, C++, MATLAB
- **Libraries :** Numpy, Pandas, Scipy, Sympy, Matplotlib.
- **Documentations :** LaTeX, HTML, Word Pad, Notepad
- **Software :** Jupyter Notebook, MySql, MS Office.

## EXTRA CURRICULAR ACTIVITIES

- Joined NSS (2018-2020) to teach the High School Student in Jagda Orphanage.
- Participated in Intra hall Badminton competition.