

Subham Patel

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EDUCATION

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

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
Advisor - Prof. Ankur Kanaujiya
Jan 2023-April 2023
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
Advisor - Prof. Ankur Kanaujiya
Aug 2022-Nov 2022
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
Advisor - Prof. Subash Chandra Martha
May 2022-Jul 2022
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.