

# Om Pathak

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## Education

<b>Indian Institute of Science Education and Research, Bhopal</b> <i>Bachelor of Science(BS) in Economic Sciences and Minor in Data Science and Engineering</i>	2021 – Present
<b>Yash Model Hr.Sec.School, Jabalpur</b> <i>Class XII, Madhya Pradesh Board of Secondary Education</i>	2019 – 2021
<b>Jawahar Navodaya Vidyalaya, Jabalpur</b> <i>Class X, Central Board of Secondary Education</i>	2014 – 2019

## Relevant Coursework and Interests

**Areas of Interest:** Microeconomics, Game Theory, Mechanism Design and Social Choice Theory  
**Credited:** Principles of Economics I and II, Econometrics I, Microeconomics I, Macroeconomics I, Econometrics II, Microeconomics II, Macroeconomics II, Game Theory, India in the World Economy, International Economics, Development Economics, Mathematics for Economists  
**Crediting:** Mechanism Design, Social Choice Theory, Money Banking Finance

## Projects

<b>Analysis of health expenditure around the world.</b> <ul style="list-style-type: none"><li>Semester Project for Data Science in Practice course - DSE 315</li><li>Global Health Expenditure Analysis utilizing Python libraries (NumPy, Pandas, Matplotlib, Scikit-learn).</li><li>Exploratory Analysis of healthcare spending trends, Regional Disparities, Mortality Rates, and Economic Impacts</li><li>Predictive modelling for optimal expenditure strategies across diverse regions and income groups</li></ul>	Oct 2023 – Nov 2023
<b>Instrumental variable regression in R</b> <ul style="list-style-type: none"><li>Semester Project for Econometrics II course- ECO305</li><li>Instrumental variable regression in R using libraries like AER and systemfit</li><li>Addressing endogeneity issues in regression models and estimating consistent parameter estimates</li><li>Utilized instrumental variables to analyze the impact of Glucose on Diastolic pressure</li></ul>	Oct 2023 – Nov 2023

## Technical Skills

**Languages:** Python, R, MATLAB,  $\text{\LaTeX}$   
**Tools:** MS Excel, STATA, Mathematica, Github, VSCode, ProwessIQ RStudio  
**Libraries:** Pandas, NumPy, Matplotlib, SKLearn

## Positions of Responsibility

<b>Department Representative</b>   <i>Economic Sciences, 2021 Batch</i>	Oct 2023 – Oct 2024
<b>Coordinator</b>   <i>Quizzing Club (IBQC)</i>	July 2023 – April 2024
<b>Team Member</b>   <i>Debating Society</i>	Feb 2022 - April 2024
<b>Core Committee Member</b>   <i>Economics club</i>	May 2022 - May 2023
<b>Event Coordinator</b>   <i>Singularity- Annual Science Fest of IISER Bhopal</i>	Oct 2022
<b>Volunteer and Demonstrator</b>   <i>'Open House', Centre for Science and Society (CS2)</i>	Nov 2022

## Achievements/Awards

<b>GATE 2024</b>   <i>Qualified GATE-2024 in Economics(XH-C1), AIR-229</i>	Feb 2024
<b>MMVY Scholarship</b>   <i>Merit Scholarship by the Government of Madhya Pradesh</i>	2021 – Present
<b>NATIONAL CADET CORPS</b>   <i>'A' Certificate from 1 MP BN NCC, Jabalpur</i>	Mar 2016 - Mar 2018