

AKSHAT AGARWAL

IISER Pune, Pashan, Pune, Maharashtra, 411008
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EDUCATION

Indian Institute of Science Education and Research, Pune

Expected May 2027

BS-MS Integrated

Overall GPA: 7.8

Some Relevant Courses taken:

The Solid Earth: B+

Introductory Seismology: B+

Earth and Planetary Material: A

Parameter Inversion and Inverse Theory: B

Exploration Seismology: B+

Geodynamics-I: A

Geophysical Fluid Dynamics: B

St. Xavier's Convent School, Lucknow

July 2022

ISC (Physics, Chemistry, Mathematics)

Overall Grade: 90.5%

City Montessori School, Lucknow

July 2020

ICSE (Physics, Chemistry, Mathematics, Biology)

Overall Grade: 98.6%

RESEARCH EXPERIENCE

Joint Inversion of RF, Surface Waves and Gravity:

May 2025-Present

Developed on existing work to write a code to perform inversion under Dr. Ajay Kumar

Ambient Noise Tomography:

January-April 2025

Processed and analysed passive seismic data recorded on campus for near-surface imaging under Dr. Arjun Datta

Landslide Simulation:

May-July 2024

Simulated the Irshalwadi Landslide using RAMMS DebrisFlow under Dr. Argha Banerjee

FELLOWSHIP

Recipient of Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship

ACHIEVEMENTS

Qualified for Regional Mathematics Olympiad in 2018 & 2019

Cleared Stage 1 of National Talent Search Exam

AIR 802 in Kishore Vaigyanik Protsahan Yojana exam

SKILLS

Python (ObsPy, NumPy, SciPy, Matplotlib)

Linux systems

Seismic Analysis Code (SAC)

Computer Programs in Seismology (CPS)

C++ and MATLAB (Intermediate)

RAMMS DebrisFlow (Debris flow simulator)

QGIS