


Abhishek Anil Deshmukh

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Basic Info

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- 3rd Year Int MSc. Physics Student at National Institute of Science Education and Research, Bhubaneswar, India (2018-2023).
- Linux Enthusiast ever since was exposed to linux.
- Maintainer of NRPS a nginx config generator.
- Disha Fellow.

Institutions

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|-----------|--|
| 2018–2023 | Integrates M.Sc in Physics National Institute of Science Education and Research Pursuing Masters in Physics with a minor in Computer Science |
| 2016–2018 | Jr. College or +2 Pace Jr. College, Thane, Maharashtra Maharashtra Board HSC, and prepared for competitive exams |
| 2004–2016 | School Abhinav Vidyalay ICSE, Dombivli, Maharashtra Indian Certificate of Secondary Education (ICSE), Developed my interest in pure sciences |

Projects Undertaken

| | |
|--------------|---|
| 2019–Present | SPR Simulation using FDTD Dr.Pratap Kumar Sahoo, National Institute of Science Education and Research Simulating Visible light and nanoparticle interaction using FDTD algorithm for applications in biochemistry. |
| 2019–Present | Genomic Data analysis with GUI Dr.Palok Aich, National Institute of Science Education and Research Developing a GUI software for genomic calculation so Biologists can focus on biology and leave the statistics to the computer. |
| 2018 | Bio-chemical Properties of DRPS-6 Dr.Abdur Rahaman, National Institute of Science Education and Research Got familiar with basic procedures and methods in biochemistry. |
| 2015–2017 | Ferrofuilid Dr.Kedar Soni, Abhinav Vidyalay ICSE with Aditya Dabhne, Presented our research on properties and applications of Ferrofuilids at GRMT's open day |

Fellowship and Positions

2019–Present | Disha Fellowship

Relevant Courses

| | |
|------------------|---|
| Physics | Electronics, Basic and Advanced Electronic Lab, Classical Mechanics I & II, Mathematical Methods in Physics I & II, ElectroMagnetics I, Quantum Mechanics I, Optics Lab |
| Computer Science | Programming and Data Science I & II, Theory of Computation, Discrete Structures and Computation |

Languages

| | |
|---------|---|
| Human | English, Hindi, Marathi, Can understand many other indian languages like odia, gujarati etc. |
| Machine | Processing languages: Python, C++, Javascript, Java, Typescript, Dart, Perl, Bash, Basic knowledge of C, R. Markup Languages: HTML, CSS, SASS, \LaTeX / $X_{\text{E}}\LaTeX$, Markdown. |

Tools I Use

Scientific Packages

GNUplot, Pyplot, Plotly, Bokeh, OpenCV, Numpy, Pandas, Numba, PyMol.

Other Packages and Programs

Git, Github, Gitlab, Django, Flask, Vue, Celery, tmux, byobu, ssh, Blender (primarily for video-editing), Audacity, GIMP, Microsoft Office Suite, Libre Office Suite, Inkscape, pandoc, Jupyter. I've managed websites manually via ssh/sshfs and vim using HTML/CSS/Python and a few netlify sites. I have some experience with database systems like Postgres, Redis, SQL. I've used Windows, MacOS and GNU/Linux systems (Debian-based, Arch-based, Fedora).

Public Code and Scripts

NRPS

A frontend tool for nginx configuration. Provides a custom web-based frontend for configuring nginx

STAR

A Tool for converting a program into a webapp to control remotely. Also provides a Discord frontend. Uses numerous tools like Redis, Celery, Sympy etc.

Compiler

A general purpose compiler, eBASH script so any file can be run from within vim. Covers a large range of languages and growing.

Survey Data Entry Platform

Frontend tool for inputting survey data into a database with primary analysis. Made it for a class assignment for economics course, but was later cancelled due to pandemic, but the code is complete and tested.

WEC

Webcrawling email collector. Takes a website and key words as argument and returns all the email under the site map which were on pages with those keywords.

Integrator

Numerical Approximation of an integration. Once came across an integrator which I could solve analytically so made this.

Hobbies

Swimming, Making Websites, Hiking, Mountain Climbing.

Black belt in Enshin Karate, and have been training for different styles ever since.

I train for 5K and 10K runs.

I Solve Rubik's Cube within a minute (best time 22 secs).

I have Successfully organised Halloween, Fashion Show among other events at NISER

I have helped my batchmates with subjects they struggle with by taking lectures etc.

Active Member of the Coding club, Photography Club.