$+91\text{-}9819327005\\ patelyogitak@gmail.com$

Yogita-Linkedin Yogita-Github

EXPERIENCE

• Homi Bhabha Centre for Science Education

2019 - 2021

 $Project\ Scientific\ Assistant$

Mumbai, India

- Part of Olympiad Question Development team for Indian Physics Olympiad (IPHO)
- Manage IPHO and NIUS (National Initiative on Undergraduate Sciences) programmes conducted every year
- Worked on several projects on Physics experiments which involved extensive model designing and analysis. Got two paper published in Physics Journal.

• UT 2018 - 2019

Teacher cum Content Developer

Mumbai, India

- Taught Physics and lead team in content development of SAT.

• Podar Innovation Centre

2016 - 2017

Curriculum Developer

Mumbai, India

- As a School Review team member, surveyed Podar Schools across India periodically to assess the progress in teaching learning process and the overall functioning of the school.
- Focused on Multiple Intelligence and Bloom's taxonomy-based teaching learning process.
- Managed animation as well as content team to create K12 e-learning course materials for science subject.
- Prepared and moderated lesson plans, question papers of Physics and Science Olympiad papers (CBSE ICSE).

· Avalon Heights International School, Vashi

2015 - 2016

Teacher

Mumbai, India

- Taught Math and Physics to middle school students.
- Focused on activity-based teaching aligned with Multiple Intelligence.

• Edtech Start-up

Manager

2012 – 2014

Mumbai, India

- Website development WordPress

- Content development K-12

EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Class	Year
PGP (AI&DS)	Jio Institute	9.00	2022-Present
B.Sc (Physics)	Mumbai University	First Class	2011-2012
HSC	Maharashtra Board	Distinction	2008-2009
SSC	Maharashtra Board	Distinction	2006-2007

ACADEMIC PROJECTS

• Capstone project

Machine Learning and Optimization

- Optimising carbon footprint of an integrated Power generation system.

• Natural Language Processing

Skills- BeautifulSoup, NLTK, Spacy, Parsing

- Various information extraction from the tweets data of Golden Globe Awards
- Interactive chatbot for cooking a recipe.

• Machine Learning and Deep Learning

Skills - EDA, supervised learning, statistical modelling, handling imbalanced data, Pytorch

- Prediction of Sepsis disease prior 6 hours using ML model
- Prediction of churning of a customer churn using Telecom Data
- Prediction of the emotion, celebrity similarity, age and gender.

PUBLICATIONS

• Gravitational Acceleration

Sep, 2022

https://aapt.scitation.org/doi/10.1119/10.0013857

 Published paper on 'Analyzing a Free-Falling Magnet to Measure Gravitational Acceleration Using a Smartphone's Magnetometer' with Dr. Praveen Pathak (HBCSE)

• Doppler Effect

Sep - 2020

https://iopscience.iop.org/article/10.1088/1361-6552/abadd7/meta

- Published paper on 'Determination of the friction coefficient of an inclined plane using the Doppler effect and smartphones' with Dr. Praveen Pathak (HBCSE) in Physics Education journal

TECHNICAL SKILLS

- Programming Languages: Python, SQL
- Developer Tools: Visual Studio Code, Git
- Data Analytics: Tableau, D3
- Big Data: Cloud databases Spark, Snowflakes
- APIs: Numpy, Pandas, NLTK, Scipy, Matplotlib, scikit-learn

SOFT SKILLS

- Management: communication, time management and listening skills
- Problem Solving: solution oriented, optimistic and self-driven

Hobbies

• Singing and Dancing: I participated in various events at college level.