

Palkit Lohia

Research Intern at Indian School of Business, 3rd year UG @ Economics, IIT Kharagpur

EDUCATION

IIT KHARAGPUR

INTEGRATED B.Sc + M.Sc IN
ECONOMICS

CGPA: 9.05/10

2019-2024 | West Bengal, India

INTEREST AREAS

As an economics student with interest in Artificial Intelligence, I have taken courses across Machine Learning and NLP. I am interested in handling computationally heavy datasets to derive insights for impactful decision making.

COURSEWORK

T - Theory | L - Laboratory

COMPLETED

Programming & Data Structures (T/L)

Micro Economics 1 (T)

Macro Economics 1 (T)

Statistics for Economics (T/L)

Probability and Statistics (T)

MOOCs

Natural Language Processing with
Classification and Vector Spaces

Natural Language Processing with
Probabilistic Models

Discrete Math and Analyzing Social
Graphs

Linear Algebra for Machine Learning

Introduction to portfolio

construction and analysis with python

CONTACT & LINKS

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spookbite

spookbite.github.io

Palkit Lohia

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INTERNSHIPS

RESEARCH INTERNSHIP @ SRITNE, ISB HYDERABAD

HOUSING PRICE INDEX

- Contributed in the development of **Housing Price Index**, a joint project by **Housing.com** and **ISB**.
- Constructed a **Laspeyres Price Index**, using granular prices from each locality and their corresponding weights based on transaction value share of that locality in India, to capture the aggregate movement in prices (per square feet) over time

REAL TIME INDICES OF ECONOMIC ACTIVITY

- Calculated weekly normal percentage returns of stock prices for Nifty-500 companies and mapped them to their industries.
- Calculated weekly sentiment scores of tweets by Nifty-500 companies and tweets related to Nifty-500 companies, posted by verified twitter handles.
- Created a panel-data corresponding to the above results and derived meaningful insights from it.

NATURAL LANGUAGE PROCESSING INTERNSHIP @ TOPCROP.IN

- Assisted with data collection, cleansing, ingestion and wrangling.
- Created a cosine-similarity model and calculated TF-IDF scores of product description and classified them into HS Codes.

OPEN SOURCE PROJECTS

- Kronos**: Built, dockerized and deployed a web app to serve past year records-grade distributions of IIT KGP,
- Stockplot**: An online platform to plot stock market indicators. Implemented the Golden Cross and Bollinger Bands Strategy as a part of the project.
- Vaccine Tracker**: Vaccine tracker is a simple tool for tracking the availability of COVID-19 vaccines in any state in India, by pin-code or district-code. It uses the API from COWIN website to monitor for vaccine availability and send an immediate email to the user.

TECHNICAL SKILLS

Programming Languages

C | C++ | Python

Database

MySQL

Systems/Platforms

Git | Docker

Python Libraries

Pandas, Numpy, Matplotlib, scikit-learn, NLTK

SCHOLASTIC ACHIEVEMENTS

- JEE Advanced AIR 5792**: Among the top 0.48% of the 1.2 million applicants in JEE Mains 2019.
- JEE Mains AIR 3230**: Among the top 0.28% of the 1.2 million applicants in JEE Mains 2019.
- Recipient of the **Merit-Cum-Means scholarship** offered by IIT Kharagpur to meritorious students pursuing university education.

ACTIVITIES & LEADERSHIP

- Core Team Member, Kharagpur Open Source Society**: Responsible for the smooth conduct of events to familiarize students with open source technologies and philosophy.