

Palkit Lohia

Research Intern at Indian School of Business, Sophomore @ Economics, IIT Kharagpur

EDUCATION

IIT KHARAGPUR

INTEGRATED B.Sc + M.Sc IN
ECONOMICS

CGPA: 9.06/10

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)

ONGOING

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

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.

GENDER ASSIGNMENT OF PATENTS

- Collected data from USPTO website using MINIDOM. Extracted title, abstract and summary of the patents from the XML files containing Patent data.
- Calculated the TF-IDF score for text corresponding to each patent and classified them as Male or Female.

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.

PROJECTS

- POS tagging:** Implemented a system to assign a part-of-speech tag (Noun, Verb, Adjective, etc.), using **Markov chains and Viterbi algorithm**, to each word in an input text.
- Auto Correct:** Implemented an Auto-correct system using **Levenshtein distance and word probabilities**
- Auto Complete:** Implemented an Auto-complete system using the **N-gram Language Model** and **perplexity** to calculate the score.

TECHNICAL SKILLS

Programming Languages

Databases

Python Libraries

C | C++ | Python

MySQL

Pandas, Numpy, Matplotlib, Scikit-learn, NLTK,
Scipy, PyCaret, Joblib, Twint, Vader, LazyPredict

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.