

ISHA WADEKAR

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PROFILE

Passionate and performance-driven student of data science, applications as well as economics who excels at data collection, cleaning, analysis and conducting detailed reports. I aim to utilize my interdisciplinary knowledge and perspective to find data-driven solutions.

EDUCATION

Indian Institute of Technology (IIT), Madras

Sept 2021 - Present

BS Data Science and Applications

CGPA : 9.1

Relevant Coursework :

- Machine Learning Techniques and Practice
- Business Data Management
- Database Management Systems
- Tools in Data Science
- Programming, Data Structures and Algorithms in Python
- Programming Concepts using Java

Gokhale Institute of Politics and Economics, Pune

June 2021 - Present

BSc Economics

CGPA : 9.46

Relevant Coursework:

- Econometrics using R and Python
- Operations Research
- The Interplay of Economic Theory and Data

PROJECTS

Book Recommender System

June 2023

Built a book recommender system that helps users find desired number of similar books to a given book title

- Used a dataset of more than 11,000 books with 12 attributes including book titles, authors, ratings, number of pages, language, reviews and publication details
- Explored data and ranked books and authors based on ratings and reviews filtered by count of ratings
- Cleaned data by dropping rows with null values for important features and dropping irrelevant features
- Preprocessed data by encoding categorical variables and scaling features
- Built a recommender system using K-Nearest Neighbors algorithm
- Used Python libraries Seaborn, Scikit-Learn, NumPy and Pandas

Instagram Sentiment Analysis

June 2023

Analyzed the sentiment of 9000 posts on #indianeconomy on Instagram

- Used PhantomBuster to scrape public data on #indianeconomy on Instagram
- Cleaned data by dropping rows with null values for important features and dropping irrelevant features
- Used Textblob to obtain polarity and subjectivity of statements
- Used Python libraries Textblob, Seaborn and Pandas

Predictive Purchase Project

Dec 2022 - Mar 2023

Understood online shopping purchasing pattern and predicted if a purchase would be made using machine learning algorithms

- Preprocessed user's session data having 21 attributes for 21330 users by imputing missing values, encoding categorical variables and scaling features
- Built an AdaBoost Classifier model to predict whether a customer would make a purchase or not using preprocessed attributes
- Used Python libraries Matplotlib, Seaborn, SciPy, NumPy and Pandas

Analysis of Digital India Land Records Modernization Programme

Feb 2023

- Obtained data for a total of 36 states and union territories in India from the website of Digital India Land Records Modernization Programme under Department of Land Resources, Ministry of Rural Development, GoI
- Did exploratory data analysis for total number of cadastral maps, maps in good condition and number of digitized maps
- Ran linear regressions to find the relationship between several variables including number of maps, number of digitized maps, number of maps in good condition, financial allocations by central government, overall governance, public infrastructure and economic governance among others
- Used R programming language and MS Word

Analysis of effect of multiple demographic factors on Life Expectancy at Birth

Feb 2023

- Did exploratory data analysis
- Ran multiple linear regression to find the relationship between life expectancy at birth (regressand) and other demographic factors (incl. GDP, Population, Child Mortality, Literacy and Carbon Emission among others)
- Checked for assumptions of the Classical Linear Regression Model
- Used R programming language

Analysis of Workforce Participation in Haryana and Kerala

Sept 2022 - Oct 2022

- Analyzed data obtained from Time Use Survey of India, conducted by NSSO (GoI)
- Observed the occupational differences of people in Haryana and Kerala in terms of participation in
 - i. paid and unpaid activities
 - ii. engagement in various types of enterprises
 - iii. location of performance of activity
- Used Stata, Python and MS Excel for data cleaning and analysis and Tableau for data visualization

Analysis of Delivery Delays and Ranking of Personnel for CODEX Solutions Pvt Ltd

May 2022 - Aug 2022

- Analyzed delivery delays for each SKU and each customer
- Ranked delivery personnel based on a specified rubric
- Used R programming language and MS Excel for analysis and data visualization

PUBLICATIONS

“Digital Agriculture: Is This the Future of 'New' Agriculture in India?”

Co-authored with Dr Ajit Kanitkar

Published in State of India’s Livelihoods Report 2022

Jan 2023, ISBN 978-81-955245-0-1

[View Publication](#)

EXPERIENCE

Data Science Intern

May 2023 - Present

Persistent Systems, Pune

- Built a recommender system using K-Nearest Neighbors algorithm
- Analyzed sentiments on Indian Economy on Instagram using Textblob python library
- Got insight into the workings of an IT company such as domains and their requirements of software, job roles and technologies used for each role, tools and technologies used for various processes in machine learning

Research Assistant

June 2022 – Sept 2022

To Dr Ajit Kanitkar (Researcher and Development Consultant)

Assisted in research on following aspects of Digitalization of Agriculture in India:

- Policy directives of the government
 - Efforts for digitalization of agricultural value chain
 - MoUs of Government of India with corporate sector companies
 - Emerging ecosystem for digitalization including incubators, government institutions, farmers’ institutions, corporates, technology service providers and payment service providers
 - Challenges and concerns over digitalization
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SKILLS

- Programming languages : Python, Java, HTML, SQL
 - Tools and Technologies : VS Code, GitHub
 - Statistical software : Python, R, Stata, MS Excel
 - Visualization software : Tableau, Flourish, Canva
 - Statistical Analysis : Regression analysis, Predictive Analysis, Sentiment Analysis
 - Economic Research
 - Report Writing
 - Data Collection and Analysis
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SOFT SKILLS

- Critical Thinking
 - Orientation for Detail
 - Problem-Solving
 - Team Work
 - Communication and Presentation
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LANGUAGES

- English – native proficiency
- Marathi – native proficiency
- Sanskrit – elementary proficiency
- Hindi – native proficiency
- German – elementary proficiency