

Bhautik Lukhi

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EDUCATION

M.Sc. IN DATA SCIENCE

Bielefeld, Germany

Oct 2022 - present

B.E. IN COMPUTER ENGINEERING

Bhavnagar, India

July 2018 - June 2022

COURSEWORK

GRADUATE

Deep Learning

Machine Learning

Multivariate Methods

Statistical Consulting

Advanced Statistical Methods I & II

Foundation of Statistics

Hidden Markov Models

Statistical Learning

SKILLS

PROGRAMMING

Languages:

- Advance:- Python,
- Intermediate:- R, Java
- Novice:- c/c++, JavaScript/Typescript

Framework & Library:

- NumPy • pandas • SciPy
- Matplotlib • Seaborn • Plotly
- Scikit-learn • Keras • TensorFlow
- PyTorch • Statsmodel • Beautiful Soup

Tools:

- Git • GitHub • Bitbucket • Docker

Soft Skills:

- Collaborating • Troubleshooting
- Adaptability • Leadership
- Communication

LANGUAGES

- **Fluent:** English, Gujarati, Hindi
- **Intermediate:** German (A2-B1)

SCHOLARSHIP

- **Recipient** of Social-scholarship worth **1800€** by Studienfonds OWL for the year 2024-2025

EXPERIENCE

STUDENT RESEARCH ASSISTANT | BIELEFELD UNIVERSITY

(DEPARTMENT OF SPORTS SCIENCE)

May 2024 - Present | on-site

Tech-Stack: Python, Pandas, Excel, Matplotlib, Scikit-learn, Beautiful Soup

- Collaborated with **Prof. Dr. Christian Deutscher** and PhD candidates on multiple research projects, offering comprehensive support.
- Scraped and processed **15M+** rows of data for various events, including **Football, Marathons and Hockey**, utilizing advanced data scraping tools and techniques to extract relevant insights.
- Applied **statistical models** to test hypotheses across different sports disciplines, enhancing the depth of analysis for academic research.
- Extracted and cleaned **90k rows of NBA Last 2 Minutes (L2M) Reports** spanning the past 9 seasons to study make-up calls.
- Expert in literature review, data preprocessing, transforming, and organizing **large datasets** using tools like **MS Excel** and Python for **EDA**.

STUDENT RESEARCH ASSISTANT | HOCHSCHULE BIELEFELD (HSBI)

(CARETECH OWL PROJECT)

May 2024 – Aug 2024 | Bielefeld, Germany

Tech-Stack: Python, Concrete-ML, Fully Homomorphic Encryption (FHE)

- Contributed to the development of **privacy-preserving algorithms** on real-world sensor data using **Fully Homomorphic Encryption (FHE)** and **Concrete-ML**, enabling secure training of machine learning models while preserving data confidentiality.

TEACHING ASSISTANT - MATHEMATICS | BIELEFELD UNIVERSITY

Oct 2023 – Mar 2024 | Bielefeld, Germany

- Assisted **Prof. Dr. Michael Hinz** in teaching Mathematics I, by conducting **3 in-person tutorials** weekly for undergraduate students.
- Collaborated with a **team of 5 tutors**, contributing to the course achieving its **highest-ever passing ratio**.

PROJECTS

SALARY PREDICTION WEB APP [Visit] | SCIKIT-LEARN, STREAMLIT

- Utilized real-world **Stack Overflow** data to develop a machine learning model for **salary prediction** based on developer profiles.
- Created and deployed a web application using the **Streamlit** library.

BUNDESLIGA PLAYER PERFORMANCE ANALYSIS [Visit] |

PYTHON, PANDAS, MATPLOTLIB, SCIKIT-LEARN

- Analyzed confidential Bundesliga game data with **Fabio Casalnuovo** (FC Schalke 04) to identify patterns in **2vs1 situations**.
- Delivered **data-driven tactical recommendations** and presented findings at an FC Schalke team meeting.

HR ANALYTICS POWER BI DASHBOARD [Visit] | POWER BI, EXCEL

- Transformed raw HR data into an interactive and insightful **Power BI dashboard** built from scratch that facilitates best storytelling.
- Implemented **KPIs** to visualize and analyze employee attrition rates based on variables such as **age, gender, job role, and salary**.