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 level)

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

BUNDESLIGA PLAYER PERFORMANCE ANALYSIS | 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 | 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**.

SALARY PREDICTION WEB APP | Python, 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.