

# Mohd Uwaish

STUDENT · SOFTWARE ENGINEER

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## Skills

<b>Programming Languages</b>	Python, JavaScript, PL/SQL
<b>Web Frameworks &amp; Libraries</b>	Django, Flask, Streamlit, React
<b>Data Manipulation</b>	Numpy, Pandas, SQL
<b>Data Visualisation</b>	Plotly, Matplotlib, Seaborn, Tableau
<b>Databases</b>	MySQL, MongoDB, SQL Server, Oracle SQL server
<b>Machine Learning Libraries</b>	Sci-Kit Learn, Tensorflow
<b>Natural Language Processing</b>	NLTK, Word2Vec
<b>Model Deployment</b>	Git, GitHub, Docker, AWS, Heroku

## Experience

### Niedersächsische Staats-und Universitätsbibliothek Göttingen

Göttingen, Germany

STUDENT ASSISTANT - SOFTWARE DEVELOPER

01/09/2024 – Present

- Contributing to the development of **TYPO3-based** web portal for **open-access network**, leveraging Docker and ddev for efficient local development and deployment.
- Also developing the **DFG-funded digital library** web portal for **Bibliothek der Neologie** platform using Next.js, implementing hybrid critical edition features for scholarly research and bilingual (German/English) content management.
- Building reusable components for critical text edition platform, implementing modern Next.js features to enhance digital academic research accessibility
- Utilizing version control (Git) and collaborating through GitLab, while working with CI/CD pipelines to streamline the development process and ensure code quality.

### Georg-August-Universität Göttingen

Göttingen, Germany

STUDENT ASSISTANT - DEPARTMENT OF ECONOMICS

01/02/2024 – Present

- Developing user friendly economics experiments using the frontend technologies and django based **oTree framework**.
- Implementing **chat and video communication** features to enhance facilitating participant interaction, experimental realism and data collection.
- Conducting **data analysis** for the experiments, employing statistical methods and visualization techniques to derive insights.

### Tata Consultancy Services Private Limited

New Delhi, India

SOFTWARE ENGINEER

08/09/2021 – 10/04/2023

- Developed** full-stack solutions for the PENALTY module of the Income Tax Business Application (ITBA) using HTML, CSS, JavaScript, Java, PL/SQL, and Oracle Database, resulting in a **20% increase** in user engagement and a **15% reduction** in processing time for tax filings.
- Implemented complex business logic and dynamic functionalities in the back-end by writing optimized Java code integrated with Oracle database.
- Designed and executed database queries, PL/SQL procedures, triggers, and functions, optimizing data models and achieving an **18% reduction** in database response time to enhance UI responsiveness.
- Leveraged Agile methodologies to iteratively develop and deploy functionalities, resulting in **9 successful** change requests and **3 new** functionalities released in a fast-paced environment, consistently aligned with evolving user requirements.

## Education

### Georg-August-Universität Göttingen

Göttingen, Germany

MASTER OF SCIENCE - MS IN APPLIED COMPUTER SCIENCE WITH SPECIALIZATION DATA SCIENCE

01/04/2023 - PRESENT

### Guru Gobind Singh Indraprastha University

New Delhi, India

BACHELOR OF TECHNOLOGY - BTECH, COMPUTER SCIENCE AND ENGINEERING

01/05/2017 – 30/05/2021

- Completed the degree with 8.01 CGPA out of 10.
- Thesis: Eth-Ocracy : Ethereum Blockchain based Voting System

# Projects

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## Meeting Summarization Testbench

*NLP Evaluation and Analysis Project*

PROJECT LINK

*Start Date - End Date*

- Developed a comprehensive testbench for evaluating and analyzing the performance of meeting summarization models on transcripts.
- Implemented a dataset augmentation pipeline utilizing Hugging Face and open-source models to diversify the training data with 17 different augmentation techniques.
- Designed a full stack system using Django Rest framework and HTML, CSS, Javascript allowing users to upload summarization models via Hugging Face links for detailed evaluation.
- Conducted metric evaluation including ROGUE, BLEU, BERTscore, and linguistic analysis such as type-token ratio, Coleman Liau index, and coverage to assess summary quality.
- Utilized visualization techniques including histograms and charts to present evaluation results in an easily interpretable format.
- Integrated user-friendly interface for seamless interaction, enhancing usability for researchers and practitioners in the NLP domain.
- Implemented with Python libraries such as Hugging Face, Pandas, and Plotly, ensuring scalability and flexibility for future enhancements.
- Contributed to advancements in meeting summarization research, with potential applications in decision-making and knowledge dissemination across various sectors.

## Digital Danke Schön: Blog and Consultancy web application

*Blog and Consultation Portal*

DIGITALDANKESCHOEN.COM

*01/05/2023 - PRESENT*

- A full-stack web application utilizing Django, JavaScript, HTML, CSS, and Bootstrap. Deployed on AWS cloud platform.
- Created an interactive platform for administrators to publish blog articles, fostering user engagement through like, comments and replies.
- Implemented features enabling users to schedule one-on-one consultation sessions, enhancing study abroad aspirants' user experience and engagement.
- Designed the website to facilitate the posting of diverse opportunities by administrators, including study abroad choices, job listings, and scholarships.

## WhatsApp WordSmith - Whatsapp and Telegram Chat Analysis

*Data Analysis and Visualization Project*

VISIT WEBSITE

*27/09/2023 - 20/09/2023*

- Developed a Streamlit application for in-depth analysis and visualization of Whatsapp and Telegram chat data, enabling users to gain insights into message statistics, word frequency, user activity, and emoji usage of their personal and group chat as well.
- Features implemented are user selection, message and word count statistics, word clouds, active user identification, emoji analysis, and various visualizations such as monthly, daily, and weekly activity charts.
- Utilized Streamlit for the user interface, Pandas for data processing, Plotly, Matplotlib, and Seaborn for data visualization, making it a powerful tool for exploring chat data patterns and trends.

## Web-Scout - A dynamic Web Scrapping tool

*Web Scrapping Project*

PROJECT LINK

*20/08/2023 - 13/09/2023*

- Created a powerful web scraping and data visualization tool using Django and Scrapy, allowing users to extract and store data from websites and generate and insightful reports as pdf.
- Employed technologies such as MongoDB for data storage, Plotly for data visualization, and Pandas for data processing, demonstrating proficiency in modern web development and data analysis tools.

## Video Recommendation System

*Undergraduate Minor Project*

PROJECT REPORT LINK

*07/01/2020 - 31/07/2020*

- Developed a video recommendation engine using collaborative filtering algorithms including user-based and item-based nearest neighbors approaches.
- Built front-end UI with ReactJS, Backend with NodeJS, hosted Machine Learning model using Flask framework and Leveraged Firebase for user authentication, data storage
- Generated video correlation matrix using Pearson's correlation coefficient to find similarities between users and videos.
- Contributed to all stages of development including planning, coding core algorithms, integrating front and back ends, testing, and deployment.
- Gained experience with developing complex, large-scale video recommendation engines using collaborative filtering and correlation algorithms.