

# Vishvapalsinhji Parmar

Passau, Germany  
☎ (+49)-15129434895  
✉ pvishvapalsinh@gmail.com  
🗣 lang. proficiency: ENG, DE  
🌐 vishvapalsinhji  
📧 vishvapalsinh  
🌐 EU citizen<sub>(DE)</sub>



## Research Topics

**Topic** Patent classification and annotation using AI,  
*Universität Passau, Passau, Germany.*

*Technologies* - python3, bigquery, numpy, pandas, tensorflow-2.0, scipy, beautifulsoup, matplotlib, scikit-learn, google cloud platform.

**Topic** Table Understanding and Interpretation for Life Science,  
*Universität Passau, Passau, Germany.*

*Technologies* - python3, SPARQL, langchain, LLM, numpy, pandas, scipy, matplotlib, scikit-learn

## Work Experience

Apr. 2022 – **Research Assistant**,  
Present *Universität Passau, Chair of Data and Knowledge Engineering.*

**Automated "Data Cleaning" using Machine Learning**

- work on the project "BigScience: GPA-accelerated AI tools for Big Data Science in hybrid MPP databases"
- responsible for various research, implementation and evaluation tasks
- conducting a know-how workshop with faculty members

*Technologies* - python3, pandas, numpy, docker, sql, gnu/linux

**Tutorials and Supervision**

- tutorials for the courses "Database Systems", "Complex Systems Engineering", "Management of Scientific Data", "Knowledge Graph", "Semantic Web Technology" and "Semantic Data Integration"
- supervision of students on seminar papers covering various topics in the area of Data and Knowledge Engineering
- conducting a know-how workshop after tutorials for students

*Technologies* - sql, postgresql, python3, latex, yworks, tensorflow-2

Aug. 2017 – **Junior Software Developer**,  
Oct. 2018 *Technorigins Web Solutions, Ahmedabad, India.*

- building tools with the Laravel framework
- creating wordpress plugins with php
- supporting the team with debugging and know-how

*Technologies* - sql, php, laravel, javascript, html, restful api, postman, asana

Jan. 2017 – **Web Developer**,  
Jul. 2017 *Freelancer, Ahmedabad, India.*

- website development with CodeIgniter
- problem solving through formal meetings with clients

*Technologies* - sql, php, codeigniter, javascript, html, css

## University Project

**Topic & Description** **Prediction of Protein Interactions using Graphical Convolution Network**, Data Science Lab, *University of Passau, Chair of Data Science*.

**Technologies** - pytorch, networkx, edgelist data, graphical-convolution-network, google-colab

## Publications

- May. 2022 **PaSA: A Dataset for Patent Sentiment Analysis to Highlight Patent Paragraphs**, International Conference on Artificial Intelligence and Law, *Singapore, Singapore*.
- Dec. 2022 **Patent Classification Using BERT-for-Patents on USPTO**, Machine Learning and Natural Language Processing, *Sanya, China*.
- Nov. 2023 **DREIFLUSS: A Minimalist Approach for Table Matching**, SemTab 2023 @ ISWC 2023, *Athens, Greece*.
- Nov. 2024 **Wikidata-Driven CEA and CTA for Life Sciences Table Matching Extending DREIFLUSS**, SemTab 2024 @ ISWC 2024, *Baltimore, USA*.
- Nov. 2024 **On the Role of Preprocessing in Matching Tables to Knowledge Graphs**, EKAW-PDWT 2024, *Amsterdam, Netherlands*.

## Education

- Nov 2018 – **M.Sc. in Computer Science**, *Universität Passau, Passau, Germany*.
- Jan 2022
- Advanced Topics in Data Science
  - Semantic Technologies
  - Data Science & Visual Analytics
  - Multimedia Databank
  - Linear System Theory
  - Web of Things and Services
- Jun. 2012 – **B.E. Computer Engineering**, *Gujarat Technological University, India*.
- May. 2016 Focus Area: Software Development, Algorithm
- Apr., 2010 – **Secondary High school (Science)**, *GSHSEB, India*.
- March, 2012 Focus Area: Mathematics, Physics, Chemistry

## Further training & Certification

- Jul. 2016 – **English Language Course and GRE Preparation**,  
Dec. 2016 *Shiksha - The Learning Centre, India*.
- Apr. 2020 – **Python Programmer Track**,  
Jun. 2020 *DataCamp*.
- Nov. 2020 – **Mathematics for Machine Learning Specialization**, Coursera
- Apr. 2021 **Machine Learning**, Coursera  
**Deep Learning Specialization**, Coursera  
**Getting and Cleaning Data**, Coursera.

## Technical Skills

**Technologies:** Python (Scikit-learn, LangChain, Pandas, Numpy, Tensorflow-2.0, Keras, Pytorch, Matplotlib, OpenCV, BeautifulSoup, FastAPI), Java, R, SQL, SPARQL, Git, Docker

**Software/ tools:** Jupyter Notebook, PyCharm, R Studio, Eclipse, VS Code, Tableau, Protégé, GraphDB, LM Studio, DBvisualizer, Neo4j, Hugging Face

**Cloud:** Azure

## Language

- German (B2/Intermediate)
- English (C1/Fluent)