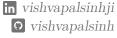
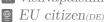
Passau, Germany

(+49)-15129434895

pvishvapalsinh@gmail.com

lang. proficiency: ENG, DE







# Vishvapalsinhji Parmar

## 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 & Prediction of Protein Interactions using Graphical Convolution Network, Data **Description** 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/ Jupyter Notebook, PyCharm, R Studio, Eclipse, VS Code, Tableau, Protégé, GraphDB,
    - tools: LM Studio, DBvisualizer, Neo4j, Hugging Face
    - Cloud: Azure

# Language

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