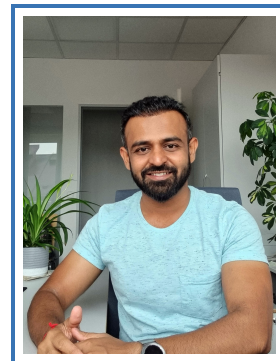


Vishvapalsinhji Parmar

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Master Thesis

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

- data acquisition, data cleaning & feature extraction
- building machine learning and deep learning models
- refinement of existing pretrained models like Bert and PatentBert

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

Work Experience

Apr.,2022 – **Research Assistant (Data Science),**
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 lectures "Database Systems", "Complex Systems Engineering", 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,**
July,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*.
- study and implementation of GCN in pytorch
 - prediction of Protein-Protein interaction on a Yeast dataset
- 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 for Law, *Singapore, Singapore*.
- Dec.,2022 **Patent Classification Using BERT-for-Patents on USPTO**, Machine Learning and Natural Language Processing, *Sanya, China*.

Education

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

Further training / Certification

- July,2016 – **English course and preparation for GRE**,
Dec.,2016 *Shiksha - The Learning Centre, India*.
- Apr.,2020 – **Python Programmer Track**,
June,2020 *DataCamp*.
- Nov.,2020 – **Mathematics for Machine Learning Specialization**, Coursera
Apr.,2021 **Machine Learning**, Coursera
Deep Learning Specialization, Coursera
TensorFlow Developer Professional Certificate, Coursera
Getting and Cleaning Data, Coursera.

Technical Skills

- Technologies:** Python (Scikit-learn, Pandas, Numpy, Tensorflow-2.0, Keras, Pytorch, Matplotlib, OpenCV, BeautifulSoup, flask), Java, R, SQL, Git, Docker
- Software:** Jupyter Notebook, PyCharm, R Studio, Eclipse, VS Code, Tableau, DBvisualizer
- Cloud:** Google Cloud Platform, Azure, Amazon AWS

Language

- German (B2/Intermediate)
- English (C1/Fluent)
- Hindi (C1/Fluent)
- Gujarati (C2/Native)