Manu Srivastava

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EDUCATION

University of Bologna   **Bologna, Italy**
M.A. in Digital Humanities & Digital Knowledge (LM-43)   *Sep.21 – Mar.24*
Graduated with : 110/110

National Institute of Design, Andhra Pradesh   **Vijayawada,India**
B.Des in Industrial Design   *Sep.21 – Mar.24*
Graduated with : 6.23 GPA

PROJECTS

Frame Semantic Parser | *Python, Bash, PyTorch, WandB, Transformers*   *Aug. 2023 – Jan.2024*
- Testing the performance and compatibility of multiple PLMs by using them with a state of the art pipeline for semantic parsing.
- Did extensive literature review on pretrained language models and their usability in semantic parsing.
- Implemented end-to-end training of deep learning model in python to conduct multiple experiments with hyper-parameter tuning and comparative analysis using WandB platform.
- Explored the behaviour of graph encoders using node similarity metrics for performing semantic parsing through hyper-parameter tuning.
- Project Repository: https://github.com/ManuSrivastava1/FrameSemanticParser

Bars Behind Bars | *Python, Jupyter Notebook, React, JavaScript, HTML/CSS*   *May.2023*
- Wrote research questions to guide the data analysis and data exploration
- Cleaned and developed multiple datasets from raw data to answer research questions
- Performed Exploratory data analysis and developed interactive data visualisation using Javascript
- Designed and developed a website using React for publishing the results and the datasets.
- Project Website: prisoner-s-dilemma.github.io/BarsBehindBars/

Forcasting with LSTM | *Python, Jupyter Notebook, Tensorflow, Matplotlib*   *Mar.2023*
- Recreated the results from a scientific paper to show the effectiveness of using LSTM for forecasting pollution level
- Cleaned and analysed the raw data into a usable time-series.
- Constructed LSTM architecture from scratch using Tensorflow and Python to train on time-series data.
- Performed data review to highlight the limitations of the results and model training.
- Project Repository: https://github.com/ManuSrivastava1/ML_LSTM_Timeseries

Citation DBMS | *Python, Bash, PyTorch, WandB, Transformers*   *Dec.2022*
- Implemented a complex database and query system for storing data about publications and citations in both relational and graph databases.
- wrote and implemented test cases for queries.
- Implemented and tested multiple database management functions for the relational and graph DBs.
- Performed data analysis and cleaning for efficient storage and retrieval of data.
- Performed data modelling to store/retrieve data in a semantically structured manner
- Project Repository: github.com/ManuSrivastava1/dsORMA

EXPERIENCE

Freelance web-designer/developer   *Jan. 2021 – Aug.2021*
Responsible for social media management and content creation and static website creation for client projects.

UX Design Associate   *Oct. 2021 – Dec.2021*
                                                                                                                        Bangalore, India
At Netbramha Design Studio, was responsible for user journey creation, and working with a team of developers and designers to deliver a MVP for a client startup.

Experience Design Lead   *May. 2021 – Sep.2021*
                                                                                                                                   Remote
At MuMe project, managed a small team to design and develop the website/ archive for MuMe project. Link - https://www.themumeproject.com/

Experience Design Intern   *Jan. 2019 – Dec.2019*
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At Cogoport, worked with a team of developers and designers to analyse user data to design a mobile first app for their international logistics users. I conducted market research to get actionable insights for the feature designs and increased usability.

TECHNICAL SKILLS

Languages	: Python, JavaScript, SQL, SPARQL, Bash, HTML & CSS
Frameworks	: React, Node.js, Django(learning), Bootstrap
Libraries	: Pandas, NumPy, PyTorch, SkiKit, Transformers, Matplotlib, Langchain, Llama-CPP
Tools	: Git, WandB, VS Code, JupyterNotebook

SPOKEN LANGUAGES

Hindi	: Native speaker
English	: C1 (IELTS certified)
Italian	: B2