MAHANTESH PATTADKAL

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PROFILE

Results-driven Data Scientist with a passion for developing and implementing innovative data science solutions. I aspire to contribute my strong technical expertise to deliver high-quality machine learning models and drive business growth while exceeding customer expectations.

TOOLS & TECHNOLOGIES

Data Analytics: SQL, NoSQL, MongoDB, Amazon S3, Excel, KNIME, Power BI, ETL

Machine Learning: Classification, Regression, Clustering and Time Series Forecasting with Pandas, Scikit-Learn, XGBoost, Neural Networks, k-means, SVM, Naïve Bayes, Matplotlib, Plotly, PyTorch, Keras, PySpark, R, statistical testing, statistical inference

Text Analytics: Tf-IDF, Named Entity Recognition, BERT, Word2Vec, NLP, SpaCy, Sentiment analysis

Deployments: AWS, Docker, Flask, Amazon Sagemaker, MLOps, Git, Atlassian Tools.

EXPERIENCE

KNIME GmbH - Germany

Data Scientist | May' 2020 – Present.

- Developed and deployed advanced data science models using KNIME and Python on AWS and KNIME Server, utilizing MLOps for efficient lifecycle management.
- Utilized Explainable AI (XAI) techniques to provide clear insights into model behavior and facilitate stakeholder understanding.
- Created executive dashboards to track essential KPIs, aiding business decision-making and driving growth.

Mu Sigma Analytics - India

Decision Scientist | Mar' 2016 – Mar' 2019.

- Being a Decision Scientist at Mu Sigma I am involved in delivering well organized reports, dashboards, data analysis and statistical models.

- Being a team lead , I communicated effectively with client/onsite personnel on understandings, insights and recommendations derived from the data analysis. I made sure that we deliver error-free and high-quality outputs to the client/manager.

PROJECTS

Predicting Success of Marketing Campaigns via Display Banners using Deep Learning Framework

- Built a heterogeneous deep learning model using image classification and NLP to predict marketing campaign success based on display banners.
- Leveraged pre-trained image classification models and text processing to determine the success rate, enabling data-driven marketing decisions.

  Languages / Tools: Python, PyTorch, KNIME, GitHub, Jira

Sentiment analysis for Drug Reviews on Medical Forums using pre-trained Embeddings

- Analyzed patient sentiment regarding a newly launched drug using medical data from various forums.
- Fine-tuned a BERT model on medical corpus and deployed the sentiment classification model on AWS, making it accessible through a REST endpoint.

  Languages / Tools: Python, PyTorch, Gensim for web scrapping, NLTK, NLP

PUBLICATIONS

DS6 - Small Vessel Segmentation in Brain MRI using Semi Supervised Learning

- This Project is accepted as the Research Publication on Small Vessel Segmentation in Brain MRI Segmentation. Deep Learning model U-Net is used in a semi supervised fashion to boost the performance of the model.

  Languages / Tools: Python, PyTorch. Git, ImageJ, Deep Learning

  Publication Link : https://2021.midl.io/papers/k4

EDUCATION

Postgraduate Degree in Data Science - **OVG University, Germany**. (2022)

Undergraduate Degree in Electronics and Communication Engineering – **VIT University, Vellore**. (2015)