

Yasaswi Palagummi *Data Scientist*

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Profile

Data Scientist with a demonstrated record of employing predictive analytics to deliver actionable insights. 2+ years of experience in performing data manipulation, statistical data analysis, and building and deploying machine learning systems using over one million customer records.

Education

MSc Data Science with Artificial Intelligence,

University of Exeter

Sep 2021 – Present

Exeter, United Kingdom

- Expected Grade: First Class Honours (Current Percentage: 80.63%)

Bachelors of Technology in Computer Science,

GITAM University

Jun 2013 – Apr 2017

Visakhapatnam, India

Professional Experience

Data Scientist, Applied Data Finance

Jun 2019 – Aug 2021 | Chennai, India

- Devised a new income verification strategy and achieved a 20% increase in lead conversion rate.
- Implemented a custom fuzzy matching algorithm using TF-IDF to match potential lead data to existing customer data, resulting in a 92% reduction in computation time.
- Redesigned a risk model that evaluates consumer creditworthiness based on purchase patterns derived from credit bureau data, resulting in a 10% increase in revenue.
- Reduced delinquency rates up to 7% across various marketing campaigns and channels by continuously monitoring portfolio development trends and early risk

Application Development Associate, Accenture

Jul 2017 – Aug 2018 | Chennai, India

- Key contributor in planning, designing, scripting test scenarios and regression test execution for automated functional testing using UFT in an agile environment
- Initiated the development of an unmanned triaging system to make the triage process easier, faster, and efficient resulting in a 35% increase in the monthly productivity

Skills

Programming Languages

Python, SQL, Java, C, C++, HTML, CSS

Data Visualisation

Matplotlib, Seaborn, Plotly, Tableau

Deep Learning

Computer Vision, Natural Language Processing

Data Analysis

Pandas, statsmodels, Excel

Libraries

Numpy, scikit-learn, PyTorch, Fastai, statsmodels

Model Deployment

Flask, MLFlow

Projects

Generalised Zero-shot Image Classification using Swin Transformer

Python, PyTorch, Swin Transformer, Shifted Window Attention

- Developed a Zero-Shot image classifier using Swin Transformer with shifted-window attention to solve the Generalised problem and to classify novel classes with reasonable accuracy
- Achieved State-of-the-art accuracy on both seen and unseen classes while reducing the bias towards recognising unseen classes by 5%

Coral Reef Detection

Fastai, Pytorch, YOLOv5

- Created a pipeline to detect and classify coral reefs in a large photo mosaic image using YOLOv5 and Fastai in python
- The pipeline reduces the human marking effort from 10-15 hours to 20-30 minutes with an accuracy of 87%

Anomaly Detection for Drinking Water Quality Control

Python, Differential Evolution, Genetic Algorithm, Scikit-Learn, SMOTE, RUS, Ensemble Modelling

- Developed an anomaly detection algorithm to help in the early identification of anomalies in water quality using Evolutionary algorithmic optimisation procedures which performed with an F1 score of 94.2%
- Using techniques like SMOTE and RUS to account for severe class imbalance to identify true undesirable variations in the water quality while keeping false alarm rates very low

Mahabharata: Sentiment and Emotion Analysis

Python, Data Collection, NLTK, NetworkX, Sentiment Analysis, Emotion Analysis

- Designed a social network graph of 192 nodes using a co-occurrence network to identify central actors in Mahabharata, an Indian Epic that is of 18 volumes
- Performed Sentiment and Emotion Analysis using the NRC Emotion Intensity Lexicon to compare sentiment and emotion similarities across 4 translations of various authors

Certificates and Achievements

- Scheduled to give a presentation at the International Conference on Image Analysis and Processing (ICIAP), in October 2022
- Completed Applied Data Science: Scientific Computing & Python, and Machine Learning & Statistical Analysis courses from the World Quant University
- Received the Global Excellence Award - merit-based scholarship at the University of Exeter which granted a 45% tuition fee waiver
- Ranked under the top thousand in Code Vita 2016, a global computer programming competition with approximately 100,000 participants