Mohd Aamir

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Education

EURECOM — Sophia Antipolis, France
Master of Science in Data Science — *Sep. 2021 – Sep 2023*

SRM University — Chennai, India
Bachelor of Technology in Electronics and Communication — *Sep. 2016 – Sep 2020*

Experience

Research Engineer — Feb 2024 – Present
EURECOM - Huawei Project Netception — EU Project Andoit6G — *Sophia Antipolis, France*

- Researched and developed **anomaly detection models** for multi-variate time series data as part of Huawei's Netception project.
- Conducted experiments on Implicit Neural Representation (INR) and other ML models for anomaly detection and data imputation, introducing various missing data scenarios, exceeding state of the art results.
- **Co-authored** a technical research paper on INR-based time series modeling, submitted for publication.
- Contributed to the EU-funded Andoit6G project, developing and integrating machine learning models such as Multi-Modal Latent Diffusion and Diffusion Models for modality selection and data generation.

Research Intern- Computer Vision — March. 2023 – Sep 2023
HUAWEI — *Mougins, France*

- Created a dataset of 50,000 noisy raw images by reversing Huawei's image processing pipeline for improved image denoising.
- Implemented a CNN based raw image denoising model using PyTorch, optimizing it through network pruning to reduce computational cost by 21%.

Projects

Detecting Prevent/Enable event relationship types in text | Oct. 2022 – Feb 2023

* Compiled a 1.4M-sentence dataset from 140,000 media articles from diverse news source.
* Developed a text extraction and preprocessing pipeline using Python data science libraries.
* Applied S-BERT and Ensemble Learning for sentence classification, achieving 87% accuracy.

Detecting Context Misinformation in Text and Images | Mar. 2022 – June 2022

* Extracted features from text and images using deep learning techniques like S-BERT and ResNet for misinformation detection.
* Utilized TensorFlow to process multi-modal embeddings through an MLP and SVM, improving classification accuracy by 9%.

Snake Species Identification Using Images | Oct. 2021 – Feb 2022

* Preprocessed input image data and trained a CNN model for snake species identification.
* Implemented SVM, MLP, and KNN models alongside CNN to accurately classify venomous snakes.

Technical Skills

Languages: Python, C++, Matlab, SQL
Frameworks/Libraries: Pytorch, Keras, TensorFlow, SkLeran, CUDA, Pandas, NumPy, Matplotlib, Scipi, OpenCV, jax, wandb
Developer Tools: Git, Linux, MLFlow, Azure, Docker, VS Code, Visual Studio