

MONISH K

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INTRODUCTION

Master's student at IIIT-B pursuing an MS by Research in Deep Learning, with a focus on Representation Learning with Foundation Models. Earned a Bachelor's degree from NMIT and having nearly two years of combined internship and full-time experience in software development.

EDUCATION

- 1) **MS by Research in Data Science | Deep Learning** (Aug 2024 - Present)
 - 3.85 CGPA out of 4, currently pursuing at IIIT - Bangalore
- 2) **Bachelor of Engineering in Computer Science** (Aug 2018 - Jul 2022)
 - 8.94 CGPA out of 10, from NMIT - Bangalore

EXPERTISE

- 1) **Research Interest** - Representation Learning, NLP, CV, Foundation Models
- 2) **Programming Skills** - Python, C/C++, Java, Oracle PL/SQL, MySQL
- 3) **Domain Skills** - Machine Learning, Deep Learning, Problem Solving, Databases
- 4) **Tools & Platforms** - Tensorflow, Scikit-learn, Jasper, Jira, Git, AWS, Unix Shell

WORK EXPERIENCE

- 1) **Senior Software Engineer at LTIMindtree** (Nov 2023 - Aug 2023)
 - Worked in a high-pressure agile environment with constant client interactions.
 - Developed complex SQL to create Jasper Report, perform data feed and data validation.
 - Setup automation to select and generate document on bulk, depending on data.
- 2) **Graduate Engineer Trainee at LTIMindtree** (Aug 2022 - Nov 2023)
 - Designed a web application to handle credit card with e-commerce utility.
 - Developed finance application using Oracle 11g, SpringBoot and Angular.
- 3) **Technical Intern at Egnite** (Jun 2021 - Dec 2021)
 - Designed process to extract and store data through web crawling and web scraping.
 - Demonstrated Cluster Sentiment Analysis model and showcased an accuracy of 83%.

PROJECTS

- 1) **Brain Tumor Classification and Segmentation using MRI data- [link](#)**
 - Use of BraTs-20 benchmark dataset with both Hand-crafted & Deep Feature extraction techniques.
 - Implemented Vision Transformer & state-of-the-art 3D Swin-UNETr achieving accuracy of 89%.
- 2) **Smog Intensity Analysis & Forecasting - [link](#)**
 - Use of GIS techniques to get time series spatial feature using Google Earth Engine & satellite data.
 - Designed S-ARIMA model to forecast Smog Intensity over Karnataka National Highway.
- 3) **Image Tamper Detection - [link](#)**
 - Detect image manipulation in JPEG format using Error Level Analysis and Deep Learning.
 - Developed a Novel CNN model which attained 86% accuracy with less than 7M parameters.
- 4) **Employability Personality Test - [link](#)**
 - Classification of personalities to MBTI categories and recommend suitable jobs.
 - Implemented an LSTM based NLP model using Tensorflow and attained an accuracy of 88%.

CERTIFICATIONS

- 1) **AWS** - Certified Cloud Practitioner (valid till 2025) - [link](#) .
- 2) **Coursera** - Google IT Support, Deep Learning, Statistics with Python - [link](#) .

ACHIEVEMENTS

- 1) **Publication** : Image Tamper Detection based paper publication in IJSDR - [link](#) .
- 2) **Award** : Finance web application was showcased as best project in 2022 batch of trainees'.
- 3) **GATE Qualified** : GATE 2024 CSE Qualified.

INTERESTS & HOBBIES

- Reviewing research papers, and staying updated on developments across various fields.
- Engaging with literary works and scientific case studies.