

# VISHNUDEEP M R

Bangalore, Karnataka

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## EDUCATION

### PES UNIVERSITY

B.Tech CSE - CGPA - 8.5

12 2020 – 05 2024

Bangalore, India

### Kumarans PU College

PCME - Percentage - 94%

06 2018 – 03 2020

Bangalore, India

## COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Database Management System (DBMS)
- Artificial Intelligence
- OOPS Concept
- Big Data

## PROJECTS

### Research paper: AI for Cyclone Prediction & Air Quality Analysis | ConvLstm, CNN, xgboost 05 2024

- **Overview:** Developed and implemented machine learning models to predict tropical cyclone intensity and analyze its correlation with local air quality.
- **Data Automation:** Built a script to scrape images from the MOSDAC server for model testing, ensuring a robust dataset for analysis.
- **Achievements:** Achieved a predictive accuracy of 93% by using ConvLSTM, ResNet, and CNN models.
- **Impact:** Enhanced understanding of the impact of cyclone dynamics on air pollution levels, providing actionable insights for environmental monitoring..

### Simulation of Physics particles with Graph Networks | GNN, GAT, PhysicsGNN

01 2024

- **Overview:** Developed a model using Graph Neural Networks (GNNs) to simulate complex physical systems.
- **Achievements:** Achieved 3.04e-9 MSE in stimulating the particle state
- **Impact:** Validated the model against experimental data, demonstrating its potential for accurate and efficient simulation of intricate physical processes.

### TalkToDoc | LLM, Langchain, OpenAI

12 2023

- **Overview:** Designed and developed a user-friendly chat application capable of seamless interaction with PDF documents
- **Achievements:** Implemented language chaining techniques and leveraged OpenAI and HuggingFace embeddings to enhance application functionality.
- **Impact:** Conducted rigorous testing and refinement processes, ensuring robust performance and smooth integration of features for end-users.

### Research paper: YOLOv8 for Accurate Skin Lesion Segmentation | YoloV8, Transformers 12 2023

- **Overview:** Spearheaded the development and implementation of novel methodologies to elevate the performance of YOLOv8 for skin lesion segmentation.
- **Achievements:** Achieved significant improvements over existing benchmarks, leading to the acceptance of a groundbreaking research paper at a conference held at Reva University.
- **Impact:** Contributed to advancements in medical image analysis, providing more accurate and reliable segmentation for dermatological assessments

## EXPERIENCE

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HPE (Hewlett Packard Enterprises)  Hadoop,Spark,Python

02 2024

IT Developer

Bangalore,India

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- Evaluated workflows processing 100PB of data, resolving code issues, and increasing upgrade rate by 49%
- Automated reporting processes: Developed strategies that reduced manual data entry by 80%, streamlining data reporting and boosting productivity.
- Improved data communication: Created comprehensive reports and presentations, translating complex data insights into actionable strategies for non-technical stakeholders.
- Facilitated continuous improvement: Established feedback loops between data science and operational teams, refining recommendations based on real-world feedback

MedINN TechLAB (PES UNIVERSITY)  Deep Learning,Applied ML

06 2023

ML Research Intern

Bangalore,India

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- Assisted in data collection, cleaning, and analysis, contributing to a 80% increase in data accuracy.
- Collaborated with the team to develop data-driven reports, resulting in 75% improvement in decision-making processes.
- Proposed and built deep learning models (Yolov8, SegNet, Attention-Unet, TransUnet) for efficient skin cancer segmentation and detection, achieving 90% accuracy improvement compared to previous methods.
- Published a Research paper in an International conference: GCITIC at Bangalore

## TECHNICAL SKILLS

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Languages: Python, Java, C, C++,SQL, NoSQL,R,XML

Developer Tools: VS Code,Vim

Data Science and Analytics:TensorFlow, ResNet, ConvLSTM, CNN, YOLOv8, Transformers

Data Management and Manipulation:PostgreSQL, MongoDB, SQL

Big Data Technologies:Hadoop, Docker, Kubernetes

## CERTIFICATIONS

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- Google Data Analytics Professional Certificate
- Astronomical Data Science
- Introduction to Linux Kernel Development