

NISHANK K S

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CAREER OBJECTIVE

Passionate fresher in machine learning and data science, eager to apply analytical skills to create innovative solutions and drive data-driven decision-making. Committed to continuous learning and advancing AI applications that can autonomously adapt and optimize, leading to more intelligent and self-improving applications.

EDUCATION

Dayananda Sagar College Of Engineering, Bangalore Dec 2020 - Present
Affl. VTU; B.E in Artificial Intelligence and Machine Learning — CGPA: 9.41 (till 6th Sem)

RV PU College, Bangalore 2018 - 2020
Class 12. Pre - University, PCMC — 92%

St. Paul's English School, Bangalore 2005 - 2018
Class 10. CICSE — 94.2%

PROGRAMMING SKILLS

Core Subjects	DSA, DBMS, Big Data, Machine Learning, Deep Learning, Data Mining, NLP, MLOps
Libraries	NumPy, Pandas, TensorFlow, Scikit-Learn, Intel oneAPI oneDNN
Languages	C, C++, Java, Python, SQL

EXPERIENCE

Data Science Intern Apr 2023 - Aug 2023
Anand Diagnostic Laboratory *Bangalore, KA*

- Worked on developing an image processing model that helps to identify the results obtained from the Typhifast ICT Card images and update it in the LIS.
- Implemented the process of segmentation, pre-processing, augmentation and prediction of results from images with an accuracy of 97%.
- Tech Stack: Python, TensorFlow, PyTorch, OpenCV, MLFlow

Project Intern Sep 2022 - Mar 2023
SIFF Young Artiste *Bangalore, KA*

- Developed a full-stack web voting application for videos and tracking of votes by category and participants.
- Implemented authentication and voting dashboard for administrators and ensured seamless integration with MySQL using the XAMPP server.
- Tech Stack: HTML, CSS, JavaScript, PHP, XAMPP, MySQL

PROJECTS

PharmAIcist PharmAIcist aims to leverage advanced AI techniques to accelerate the drug discovery process by predicting the bioactivity and toxicity of potential drug candidates.

Tech stack- Python, Streamlit, scikit-learn, ChEMBL Database, PADEL Descriptor, PubChem Fingerprints ([LINK](#))

TraffiKAI TraffiKAI aims to automate Traffic Signalling System with Dynamic Traffic Signaling and Emergency Vehicle Detection.

Tech stack- Python, OpenCV, TensorFlow, Streamlit, PyQT5, PyTorch ([LINK](#))

TimeCapsule TimeCapsule is an AI-based system that can summarize and generate historical events into concise and informative summaries.

Tech stack- Python, Gradio, Stable Diffusion API ([LINK](#))

CleanSweep.AI CleanSweep.AI employs the Single Shot Detector Algorithm, which is trained on the TACO Dataset to accurately identify instances of scattered debris, facilitating effective mitigation measures.

Tech stack- Python, Geocoder, Twilio API, OpenCV, TensorFlow, Streamlit ([LINK](#))

RESEARCH

Comprehensive Analysis and Prediction of Bioactivity and Toxicity in Drug Discovery using Machine Learning Approach

Published in the *International Journal on Recent and Innovation Trends in Computing and Communication* (Scopus Indexed)

Enhancing Traffic Management through Density-Based Dynamic Traffic Signaling and Audio-Visual Emergency Vehicle Priority Coordination

Under Review in the *International Arab Journal of Information Technology* (Scopus Indexed)

A Novel Image Processing Approach in Immunochromatographic Test (ICT) Card Images for Typhoid Detection using Deep Learning

Under Review

Advancing Oral Cancer Detection: 3D CNN-based Classification and Segmentation of Oral Cancer Lesions

In Progress

CO-CURRICULAR ACHIEVEMENTS

- **CentuRITon** AI/ML Track Winners in the national level hackathon organised by MSRIT, Bangalore.
- **Intel OneAPI Hackathon** Winners in the intra-department Intel oneAPI hackathon at Dept. of AI&ML, DSCE
- **Generative AI Hack Day** Runner-up in the inter-department Generative AI hackathon conducted by Cell-Strat, an AI based SaaS startup and Dept. of AI&ML, DSCE.

VOLUNTEERSHIP

- **Intel oneAPI Student Ambassador** Responsible for educating, conducting events and building the community of oneAPI.
- **UG Research Society-Vice Chair** Responsible for organizing workshops and sessions for the researchers of the society.
- **Code4Thought-Student Coordinator** Conducted sessions on C Programming and Git/Github and assisted in driving the CodeChef Coding Program across the college.
- **Aventus - Core Team (Tech)** Contributed to Aventus Hackathon as a member of the tech Team, providing technical support, facilitating workshops, and managing tech infrastructure.