



KANISHKA S

COMPUTER SCIENCE STUDENT | EXPLORING MACHINE LEARNING,
DEEP LEARNING & AI APPLICATIONS

ABOUT ME

Computer Science student with a strong foundation in programming and problem-solving. Experienced in developing projects across software development, web technologies, and data-driven applications. Curious learner with interests spanning AI, data analytics, and innovative tech solutions.

PROJECTS

GENDER CLASSIFICATION

- Developed a Convolutional Neural Network (CNN) model to classify gender from facial images.
- Implemented image preprocessing, feature extraction, and model evaluation techniques using Python and TensorFlow.
- Gained practical understanding of CNN architectures and performance tuning in image classification tasks.

SEISMIC EVENT DETECTION USING TIME-SERIES DATA

- Designed a deep learning model to detect and classify moonquakes and marsquakes using NASA InSight and Apollo seismic datasets.
- Applied time-series analysis, signal processing, and feature extraction techniques for accurate event prediction.
- Focused on improving early detection of seismic activity using AI-driven insights.

CHAIN-OF-THOUGHT LLM FOR GEOSPATIAL ANALYSIS

- Built a Large Language Model (LLM) system capable of performing step-by-step geospatial reasoning.
- Integrated natural language queries with geospatial datasets to analyze environmental risks and climate patterns.
- Explored RAG (Retrieval-Augmented Generation) and reasoning pipelines to enhance contextual understanding.

SITREZHUTHU - PERSONAL PORTFOLIO GENERATOR

- Developed a customizable portfolio generator to help users create aesthetic, minimal personal websites.
- Built using HTML, CSS, and JavaScript with dynamic templates and responsive layouts.
- Focused on user experience design, content modularity, and clean UI/UX principles.

RECOGNIZING HANDWRITTEN DIGITS

- Implemented K-Means clustering to group handwritten digit images into 10 clusters, demonstrating unsupervised learning and feature extraction skills.

CONTACT

- +91 88707 32599
 kanishkaa1302@gmail.com
 Salem, Tamilnadu, India - 636112
 <https://github.com/kanishka1259>
 www.linkedin.com/in/kanishka-senthilkumar-22b512291

EDUCATION

AMRITA VISHWA VIDHYAPEETHAM,
COIMBATORE, INDIA

Bachelor of Technology,
Computer Science and Engineering
2023 - 2027
Current CGPA: 8.58/10

SKILLS

Programming languages: Python, C, C++, Java, MATLAB, JavaScript, Haskell.

Web Technologies: HTML, CSS.

Tools & Platforms: Google Colab, VS code, TinkerCAD, Dev++, Code Blocks, Git, Github.

Database Management: MySQL.

Machine Learning & Analytics:
Exploratory Data Analysis, Model Building, Clustering, Predictive Modelling, Performance Evaluation.

Core Computer Science Concepts: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems.

Soft Skills: Problem-Solving, Team Collaboration, Communication, Creativity, Adaptability.

HACKATHON PARTICIPATION

- Participated in 4+ National and College-level Hackathons, including challenges focused on AI for Sustainability, E-commerce Innovation, and Social Impact.
- Gained hands-on experience in rapid prototyping, team collaboration, and problem-driven model development.

Hackathon participation certificates:

[Click here](#)

MINI PROJECTS IN C (2048 GAME & CALENDAR GENERATOR)

- Developed the classic 2048 game and a Calendar generator in C, showcasing strong understanding of loops, arrays, logic building, and modular program structure.

SIMPLE UI DESIGNS (ALARM CLOCK & CALCULATOR)

- Designed intuitive user interfaces for an Alarm Clock and Calculator, focusing on clean layout, usability, and basic event-driven functionality.

CERTIFICATIONS

- [NPTEL - Introduction to Machine Learning \(IIT Madras\) – 65%](#)
- [NPTEL - Deep Learning \(IIT Ropar\) – 75%](#)
- [Udemy - The Web Developer Bootcamp](#)
- [Udemy - Java 17 Masterclass: Start Coding in 2024](#)
- [From RAGs to Riches Workshop – Gained insights on Retrieval-Augmented Generation \(RAG\)](#)