

AVIJITH MANIKANDAN

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Avijith Manikandan | avijith2003

SUMMARY

Motivated and detail-oriented 3rd-year undergraduate with hands-on experience in Python, Java, TensorFlow, Flask, MySQL, and Git/GitHub, along with foundational skills in web development. Passionate about expanding expertise in AI/ML, with a keen interest in exploring advanced machine learning algorithms, neural networks, and AI-driven solutions to contribute to innovative, real-world applications.

PROJECTS

Fake News vs Real News Detection

- Developed a machine learning model to classify news articles as real or fake.
- Utilized NLP techniques to analyze text patterns and detect misinformation.
- Trained the model using TensorFlow and Python.
- Built a Flask-based web application for users to input and verify news credibility.

AI-Powered Chatbot

- Implemented chatbot using LLaMA-3.2-3B-Instruct for intelligent conversation handling.
- Used modules like Pytorch, Hugging face Transformers .
- Optimized deployment on a 4GB GPU, handling memory constraints and performance bottlenecks

Research Project (Ongoing)-Converting text to Indian Sign language

- Conducting a comprehensive literature review on text-to-Indian Sign Language (ISL) translation methods, including deep learning, rule-based, and statistical approaches.
 - Analyzing existing datasets, parallel corpora, and linguistic models used for ISL translation to identify research gaps and challenges.
 - Evaluating the effectiveness of different methodologies in preserving ISL grammar and improving translation accuracy for accessibility.
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INTERNSHIP

Center of Excellence in Educational Technology (CoEET).

Learning Assistant (Digital Marketing Desk)

NIIT University | [March 2023] – [May 2023]

- Designed and edited multimedia content (graphics, videos,) using Canva, Adobe Premiere Pro, and Wondershare Filmora to promote interdisciplinary educational technology projects.
 - Collaborated with multidisciplinary teams (CS, Biotech, Management) to align marketing strategies with industry-linked project goals, enhancing visibility for NU's tech-driven pedagogy.
 - Recognized with a Certificate of Achievement for contributions to content creation and project coordination.
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EDUCATION

Bachelors of Technology in Computer Science and Engineering(2022-2026)

NIIT University NH 8, Delhi - Jaipur Expy Neemrana, Rajasthan, 301705

Class 12, CBSE(2020-2022)

Sindhi High School, Hebbal, Bengaluru-560024

Class 10, ICSE(2010-2020)

Vidya Niketan School, Hebbal, Bengaluru-560024

SKILLS

- **Programming:** Python, Java, HTML, CSS
- **AI & ML:** TensorFlow, Scikit-learn, Neural Networks , NLTK, Opencv
- **Database :** Flask (backend integration), MySQL (database design, CRUD operations)
- **Libraries & Tools:** Pandas, NumPy, Git,
- **Languages:** English,Tamil, Hindi,Kannada

CERTIFICATES

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| • <u>Supervised Machine learning</u> | Coursera |
| • <u>Advanced Learning Algorithms</u> | Coursera |
| • <u>Unsupervised Learning</u> | Coursera |

LEADERSHIP & EXTRACURRICULARS

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| Member of Student Affairs Committee(SAC) | 2024 – Present |
| <u>Volunteer, Teaching English for Job Training – NIIT Foundation</u> | 2022 |
| <u>Volunteer, EdTech Growth Camp</u> | 2024 |
| <u>Volunteer, TEDx NIIT University</u> | 2024 |
| <u>Pool Sports Coordinator</u> | 2024 – Present |