

Ashik C Sabu

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WORK EXPERIENCE

Machine Learning Engineer (Intern)

Sep 2024 - Present

Neumeral Technologies | Kakkanad, Kerala

- Spam/Ham Comment Classifier: Built a machine learning model to filter harsh comments, fostering a positive learning environment.
- Fine-tuned LLM: Optimized DistilBERT for improved spam/ham classification.
- Course Recommendations: Designed a recommender system to suggest similar courses based on user queries.
- API Development: Integrated ML models into the website by creating APIs with Flask and Django frameworks.
- Course Tag Generator: Enhanced search functionality by generating course tags using custom embeddings and vectorization.
- Machine Learning Integration: Implemented AI-driven features, including content classification and personalized recommendations, for an online learning platform.
- Collaborative Development: Worked on integrating scalable ML techniques into a live platform while ensuring efficient implementation.
- Quiz Generator (In Progress): Developing a quiz generation system using LangChain and Ollama for minimal inference time.

Technical Lead

Oct 2024 - Present

GDG SIMATS | On Campus Google Dev Club

- Oversaw technical development, mentored 400+ members, and ensured code quality and innovation as Technical Lead for the Google Developer Group (GDG) Student Chapter at SIMATS Engineering.

Jr. ML Engineer

May 2024 - July 2024

Omdena-remote | Chapter- Milan(Italy)

- Created comprehensive datasets for Milan crops and salads, documenting all sources and referencing credible research materials.
- Developed and evaluated yield prediction models using RandomForest and XGBoost, achieving high accuracy with the XGBoost algorithm and enabling inference on custom data.
- Collaborated effectively with team members, contributing to meetings, updating project progress, and managing code in the GitHub repository for seamless development.

PROJECTS

Speech Emotion Decoder (Aug 2024)

[View in GitHub](#)

- Developed Speech Emotion Decoder, a tool that decodes emotions from audio using a custom deep learning model.
- Trained the model with popular datasets like RAVDESS, TESS, and SAVEE, featuring native English speakers and diverse emotional expressions.
- Designed a convolutional neural network (CNN) to predict emotional labels by breaking audio into smaller 3-second chunks.
- Utilized Fourier Transform to generate spectrograms and extracted MFCCs (Mel Frequency Cepstral Coefficients) to analyze the audio signal's spectral envelope.
- Achieved accurate emotion predictions by integrating feature extraction and CNN-based classification for audio input.

Game Recommender Deck (Feb 2024)

[View in GitHub](#)

- To predict top five similar games of same genre and play style from the games released in STEAM. By leveraging the cosine distance, analyzing the characteristics of users favorite games to find similar ones in terms of genre and play style. Plus, with the sleek and user-friendly interface powered by Streamlit, exploring new gaming adventures has never been easier.

Hitman Interview Desk (Ongoing)

- A gamified interview desk by using gamified videos from Hitman Videogame and then using phi3 (mini) 4k-instruct model to make ai generated interview content for each job description given by user.

CERTIFICATIONS

Jr.ML Engineer Prof. certificate (Omdena-Milan)

[View credentials](#)

IBM Machine Learning with Python

[View credentials](#)

Deep Learning with Keras and Tensorflow

[View credentials](#)

Introduction to Neural Networks and PyTorch

[View credentials](#)

Introduction to Deep Learning & Neural Networks with Keras

[View credentials](#)

Google Crash Course on python

[View credentials](#)

EDUCATION

Bachelor of Technology (B. Tech.) AI & Datascience
SIMATS Engineering, Chennai (India)

Sep 2021 - May 2025

SKILLS

Data Science / Machine Learning / Deep Learning : Python | Data Visualization | Supervised Learning algos | Unsupervised Learning algos | Custom model building | Finetuning LLM's | Feature Engineering

Mathematics For ML and DL : Algebra | Probability | Statistics | Calculus | Matrices

Python Packages and Frameworks : Scikit-Learn | TensorFlow | Keras | NumPy | Pandas | SciPy | Seaborn | Django | Docker | OpenCV | Redis

Programming Languages : Python | Java | C | C++

Databases : MySQL | PostgreSQL

Soft Skills : Project Management | Communication | Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity