





SASWATA KUMAR DASH

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 github.com/saswatakumardash  [portfolio](#)  leetcode.com/saswatakumardash

EDUCATION

Vellore Institute of Technology, Chennai <i>Bachelor of Technology in Computer Science and Engineering (Cyber-Physical System)</i>	2021-2025 CGPA: 8.49
ODM Public School, Bhubaneswar <i>12th Std CBSE</i>	2021 Percentage: 82.83

EXPERIENCE

Tomas Bata University in Zlín <i>Artificial Intelligence Research Intern</i>	May 2024 – July 2024 Zlín, Czech Republic, Europe
<ul style="list-style-type: none">Engaged in a prestigious international internship under the mentorship of Prof. Roman Senkerik, Head of A.I. Lab.Developed a fine-tuned Llama 2 Model for enhancing the performance of Ai algorithms like the meta-heuristics algorithms, evolutionary algorithms, etc, and also curated dataset for fine-tuning from scratch.Explored advanced hyperparameter tuning frameworks and benchmarking randomized optimization algorithms.Gained hands-on experience working with the OpenAI API.Explored advanced hyperparameter tuning frameworks and benchmarking randomized optimization algorithms.	
Teralumen Solutions Pvt Ltd <i>Artificial Intelligence in Biotech Intern</i>	August 2023 – December 2023 Chennai, Tamil Nadu, India
<ul style="list-style-type: none">Developed AI algorithms for cancer margin detection using Terahertz measurements.Enhanced algorithms with OpenCV and other tools.Implemented CNN model with 92% , Random Forest Model with 88%, and SVM Model with 87% accuracy.Curated datasets from scratch for robust model training.Gained AI field experience through collaboration and knowledge-sharing.	

PROJECTS

Bigram GPT | *Python, PyTorch, Neural Network, Kaggle, LLM, Jupyter Notebook* | [Explanation Video Link](#)

- Incorporating an external bigram language model by 25% Enhancements.
- Designed an enhanced version of Bigram Language Model, showcasing the power of AI and neural networks with a 20% improvement from the previous model.

Bilingual Text OCR to Audio Speech | *Python, FastAPI, CRNN, gTTS, HTML, CSS, JavaScript* | [Website Link](#)

- Developed a full-stack application to convert handwritten Tamil and English text into speech using a CRNN model with 92% and 95% accuracy.
- Featuring trackpad input, camera capture, and image upload for OCR, utilizing gTTS for audio speech.

Voice Cloning AI Model | *Python, PyTorch, Deep Learning, Kaggle, Tacotron2, Jupyter Notebook* | [Explanation Video Link](#)

- Developed a cutting edge solution for voice synthesis based on the Tacotron2 repository by Ryan Rudes, with significant enhancements and customizations.
- Utilized TensorFlow and a pre-trained model for natural-sounding audio synthesis, with a custom pickle model for efficient saving and loading.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, C, Html, Css, Javascript
Technologies: scikit-learn, Tacotron2, Jupyter Notebook, OpenCV, Fine-tuning LLM, Terahertz Measurements, TensorFlow, PyTorch, Large Language Models, Command Line Interface, Neural Networks, Data Preprocessing
Areas Of Interest: Generative Artificial Intelligence, Deep Learning, Machine Learning, Artificial Intelligence, NLP
Soft Skills: Communication, Collaboration, Teamwork, Problem Solving

ACHIEVEMENTS AND CERTIFICATIONS

- Received **Professional Training certification in Python and Machine Learning** from IIT Kharagpur : [Certificate](#)
- Received Certification of completion for successfully completing **6 weeks internship using IBM SkillsBuild in Artificial Intelligence (AI)** from All India Council for Technical Education (AICTE) and Edunet Foundation : [Certificate](#)
- Access to Other Certifications : drive.google.com/drive/Certificates