





SASWATA KUMAR DASH

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

EDUCATION

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

EXPERIENCE

Tomas Bata University in Zlín <u>Experience Certificate</u> <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 meta-heuristics, evolutionary algorithms, etc., and curated datasets for fine-tuning from scratch.Explored advanced hyperparameter tuning frameworks and benchmarking randomized optimization algorithms.Gained hands-on experience working with the OpenAI API.	
Teralumen Solutions Pvt Ltd <u>Experience Certificate</u> <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

Bilingual Text OCR to Audio Speech Python, FastAPI, CRNN, gTTS, HTML, CSS, JavaScript <u>Website Link</u> <u>Project Link</u>
<ul style="list-style-type: none">Research Paper Published in IEEE Xplore on the findings of this project: IEEE Paper Link.Developed a full-stack application to convert handwritten Tamil and English text into speech using a CRNN (Convolutional-Recurrent Neural Network) model using LSTM and GRU with 92% and 95% accuracy.Featuring trackpad input, camera capture, and image upload for OCR, utilizing gTTS for audio speech.
Bigram GPT Python, PyTorch, Neural Network, Kaggle, LLM, Jupyter Notebook <u>Explanation Video Link</u> <u>Project Link</u>
<ul style="list-style-type: none">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.

TECHNICAL SKILLS AND INTERESTS

Languages and Frameworks: Python, SQL, C/C++, Java, Next.js, FastApi, React
Technologies: Jupyter Notebook, OpenCV, LLMs, TensorFlow, PyTorch, Large Conceptual Models, Neural Networks
Areas Of Interest: Generative Artificial Intelligence, Deep Learning, Machine Learning, Artificial Intelligence, NLP
Soft Skills: Communication, Collaboration, Teamwork, Problem Solving

ACHIEVEMENTS AND CERTIFICATIONS

- Presented research paper titled "Multi-Lingual Handwritten Recognition using Convolutional Recurrent Neural Networks" in the **IEEE Technical Sponsored International Conference (ICES-2024)** : [Certificate](#)
- Received **Professional Training certification in Python and Machine Learning** from IIT Kharagpur : [Certificate](#)
- Access to Other Certifications : [Certificates](#)