

# JATANGI Y D M V PRASADA VISHWESH

Roll No.: E22CSEU1691

Bachelor of Technology

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GitHub

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Portfolio

## EDUCATION

### •B.Tech in Computer Science Engineering (AI & ML)

Oct 2022 – Present

Bennett University, Greater Noida, India

### •Intermediate Education

July 2020 – July 2022

Futjee International Institute, Vijayawada, India

## PERSONAL PROJECTS

### •Image Captioning (Vision Transformers & GPT-2) Live Demo

Jan 2024 – Present

Implemented an end-to-end image captioning pipeline using ViT as encoder and GPT-2 as decoder.

- **Tech Stack:** Python, PyTorch, TensorFlow, ViT, GPT-2.
- **Description:** Implemented a complete image captioning pipeline that used Vision Transformers for feature extraction and GPT-2 for text generation.
- **Responsibilities:** Pre-processed and augmented training datasets; fine-tuned ViT encoder and GPT-2 decoder with custom attention.
- **Evaluation:** BLEU and ROUGE metrics; debugged training instability and optimized learning pipelines.
- **Impact:** Delivered consistent, high-quality captions; resulted in an IEEE ICPCT 2025 publication.

### •Smart Chef (Recipe & Nutrition Web Application) Live Demo

A React-based web app that integrates Edamam API to fetch recipes and provide nutrition analysis.

- **Tech Stack:** React.js, Axios, Edamam API, Chart.js.
- **Description:** A web application that pulls recipes and computes detailed nutritional analytics for user-input food items.
- **Key Features:** Recipe search via Edamam API; nutrition breakdown; interactive Chart.js graphs; clean UI.
- **Impact:** Demonstrated end-to-end web development, API integration, and data visualization.

## TECHNICAL SKILLS AND INTERESTS

- **Languages:** Python, C++, JavaScript
- **Concepts:** Data Structures & Algorithms (DSA), OOP, DBMS
- **AI/ML:** Deep Learning, CNN, RNN, LSTM, Transformers, ViT, GPT-2, NLP, BLEU, ROUGE
- **Frameworks:** TensorFlow, PyTorch, Keras
- **Frontend:** HTML, CSS, React.js
- **Backend:** Node.js, Express.js, Spring Boot
- **Databases:** MySQL, MongoDB
- **Tools:** Git, GitHub, Jupyter Notebook, VS Code, Google Colab
- **Cloud:** AWS, Google Cloud

## CERTIFICATIONS

- **Google:** Foundations of Project Management (2023)
- **Google:** Advanced Data Analytics Capstone (2023)
- **Google Cloud:** Introduction to Generative AI (2024)
- **AWS:** Generative AI with Large Language Models (2024)
- **IBM:** Machine Learning with Python (2023)
- **IBM:** Exploratory Data Analysis for Machine Learning (2023)
- **Edge Impulse:** Computer Vision with Embedded ML (2023)
- **IEEE ICPCT 2025 publication:** VisionGPT2 (ViT+GPT-2), BLEU 0.4877 - DOI ending: 10939211

## ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Telugu
- **Tools Used:** Jupyter Notebook, VS Code, GitHub, Google Colab
- **Activities:** AI Research Reading, Public Speaking, Programming Challenges