

BHARANI KUMAR

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SUMMARY

Motivated and detail-oriented Software Engineer with a solid background in programming, data structures, and algorithms. I am passionate about building scalable applications and always looking to learn new technologies. I want to contribute to innovative projects and grow in a team-based development environment

TECHNICAL SKILLS

Java(Advance)	CSS, Bootstrap (Intermediate)	Express and React (Intermediate)
Python(Intermediate)	Java Script (Intermediate)	Restful API (Intermediate)
HTML (Intermediate)	Node.js (Intermediate)	MySQL (Intermediate)

PROJECTS

E-Commerce Web Application for Art and Handcrafted Items

- Designed a responsive, user-friendly, full-stack website for buying and selling art, paintings and wooden crafts.
- Implemented user authentication via email and Google using OAuth 2.0, with bcrypt (hashing and salting).
- Enabled custom profile creation for buyers and sellers with item listing, shopping cart, and order history etc.
- Developed a custom RESTful API using Express.js for fetching products, placing order and adding items to cart.
- Used PostgreSQL to perform CRUD operations for managing users, products, orders, and other data entities.
- Implemented product search, filtering, and pagination for better user experience.

Image Captioning in Telugu using Deep Learning

- Built an end-to-end deep learning model to generate Telugu captions for images using a custom CNN–LSTM architecture.
- Employed TensorFlow and Keras libraries for data preprocessing, tokenization, and model development.
- Designed a custom CNN for image feature extraction and used LSTM to process and encode textual captions.
- Combined visual and textual features for training the captioning model; achieved a BLEU score of 30 and a validation loss of 2.34. The model generates top-5 caption predictions for unseen test images.
- Integrated transformer models to translate English captions to Telugu, enabling multilingual output.
- Enhanced model performance by tuning parameters such as dropout, learning rate, and batch size using GridSearchCV.

EDUCATION

Vellore Institute Of Technology - Amaravati	Sept 2022 - June 2026
B-Tech CSE - AIML	CGPA - 8.99
Narayana Junior College	June 2020 - April 2022
Vijayawada, Andhra Pradesh	Percentage - 95.6%

CERTIFICATIONS

- AWS Cloud Practitioner:** Gained hands-on knowledge of core AWS services including compute, storage, networking, and security, along with best practices for cloud architecture.
- AWS Solution Architect Associate:** Learned to design scalable, cost-efficient, and secure cloud solutions based on real-world business requirements

ADDITIONAL INFORMATION

- Languages:** English, Telugu
- Awards/Activities:** Awarded 2nd place in the CSS Cascading event(2024) conducted by the CSI Club for designing a visually appealing and functional website using HTML and CSS.
- Achieved 3rd place in a product design contest under the Entrepreneurship category(2024) for developing a smart shoe cleaning solution.