

ARCHIT ANAND

BENGALURU,INDIA
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EDUCATION

- BTech in Computer Science and Engineering
PES University - 7.81 CGPA (2021 - current)
- ISC - 93 % (2021)
- ICSE - 96.4 % (2019)

PROJECTS

- **TRANSCRIPTION ANALYSIS AGENT | NLP | MULTI-AGENT SYSTEMS | GENERATIVE AI** (November 2024)
 - Built a multi-agent system for transcript analysis, generating JSON-structured summaries, detailed topic classifications, and recursive analyses using GPT-4o-mini and PyAutoGen.
 - Developed standalone tools for topic clustering, classification, and sentiment analysis, ensuring high accuracy and efficient token usage with contextual compression.
 - Integrated topic visualizations and relationship mapping to enhance comprehensive conversational insights. [link](#)
- **E-COMMERCE MONOLITH TO MICROSERVICES | DOCKER | KUBERNETES** (March 2024)
 - Migrated a monolithic e-commerce website to a microservices architecture, improving scalability and fault isolation.
 - Utilized Docker for containerization and Kubernetes for orchestration, ensuring seamless deployment and management of services. [link](#)
- **REVIEW ANALYSIS SYSTEM | NLP | FEATURE EXTRACTION | DATA VISUALIZATION** (April 2024)
 - Built a Python library and Streamlit web application to analyze product reviews from the G2 platform, extracting key features and generating insights using clustering algorithms and LLM-based methodologies.
 - Enhanced feature extraction with tools like SpaCy for sensitive data handling, TF-IDF for semantic clustering, and the Mistral-7B v2 API for advanced contextual analysis. [link](#)
- **FRAMESCRIPT: NARRATIVE SYNTHESIS FROM IMAGE SEQUENCES | TRANSFORMERS| LLM |** (November 2023)
 - Developed an Encoder-Decoder model combining Inception v3 for feature extraction and LSTM for caption generation, achieving high-quality captions on the Flickr8k dataset with BLEU score evaluation.
 - Designed a two-part system integrating image captioning with story generation using the MPT-7B-Instruct model, leveraging innovations like ALiBi and Flash Attention for optimized transformer performance. [link](#)

SKILLS

- **LANGUAGES:** JAVA, Python, C, C++
- **Libraries/Fraameworks:** TensorFlow, PyTorch, Scikit-learn
- **Computer-Vision :** OpenCV, YOLO, MediaPipe
- **Tools / Platforms:** Git, Docker, AWS, Linux, Wireshark, Sql Workbench,Kubernetes

EXPERIENCES

- **Teaching Assistant- Data Analytics | PES University**
August 2024 -present
 - Actively involved in crafting the data analytics curriculum of the university.
 - Teaching a class of 100+ students.
- **AIML Intern | PESU Research Foundation**
June 2024 – August 2024
 - Developed a software solution which segregates waste substances based on their thermal signatures in real time .
 - Trained the model on a self-created dataset consisting of thermal images of 6 major classes- glass, cardboard, plastic pet 1, plastic pet 2, plastic pet 3 and PVC. [link](#)
- **Summer Research Intern | Sports Analytics and Research Centre(STARC)**
June 2023 – August 2023
 - Developed ‘BOWL-BUDDY’, a deep learning model for fast bowler performance enhancement.
 - Trained the model using extensive self-generated datasets consisting of 1000+ optimal and injury-prone actions, enabling bowlers to refine their technique by comparing their actions with the model's recommendations, minimizing modifications for improved performance and injury prevention. [link](#)
 - Research paper published in ICT4SD 2024 – Goa, India, under the Springer publication conference in August 2024.
- **Centre for Innovation and Entrepreneurship(CIE)**
August 2022 -November 2022
 - Built a startup from scratch, overseeing the 3 major feasibility criteria -social, economic, and technical.
 - Ensured workflow management and created a marketing strategy as well.