HYMA REDDY

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CAREER OBJECTIVE :

Highly motivated and curious Computer Science (AI & ML) graduate passionate about applying machine learning to real-world challenges. Seeking a Data Scientist Internship at a reputed organization to contribute to impactful ML projects while gaining experience in model development, evaluation, and experimentation. Eager to explore Generative AI applications in a collaborative environment

EDUCATION PROFILE:

COURSE	Institution	Duration	Percentage/CGPA
Graduation (CSM) (Computer Science and Engineering Artificial Intelligence and Machine Learning)	Avanthi Institute of Engineering and Technology, Makavarapalem.	2021-2025	8.79/10.0
Intermediate(class XII)	Sri Chaitanya Junior College, Visakhapatnam.	2019-2021	97.3/100
SSC(class X)	Kairali English Medium School,Devarapalli.	2018-2019	9.7/10.0

INTERNSHIPS:

Data Science Intern
Rashtriya Ispat Nigam Ltd (RINL), Vizag
May 2024 – June 2024

- Built a Random Forest Regressor model to analyze blast furnace parameters.
- Identified critical values affecting furnace performance using real-time manufacturing data.
- Applied optimization techniques and evaluated performance using MSE.

Machine Learning Intern
Growth Ninja
July 2023 – September 2023

- Developed an Article Recommendation System using NLP techniques and TF-IDF.
- Processed and modeled text data to deliver relevant article suggestions.
- Gained experience in multi-tier application design and system integration.

PROJECTS:

1. Predicting Critical Parameters of Blast Furnace

- Modeled a regression problem using Random Forest on industrial blast furnace data.
- Identified and analyzed critical process parameters using Mean Squared Error as the performance metric.
- ***Tech Stack:*** Python, Scikit-learn, Pandas, Matplotlib

2. Article Recommendation System

- Developed a content-based article recommendation engine using TF-IDF and cosine similarity.
- Processed user preferences and article metadata to deliver personalized suggestions.
- ***Tech Stack:*** Python, NLP, Scikit-learn

3. Image Captioning with Advanced Techniques

- Designed a deep learning-based image captioning system using the BLIP (Bootstrapped Language-Image Pretraining) model.
- Integrated computer vision and NLP to generate accurate textual descriptions of uploaded or captured images.
- Enhanced accessibility with Text-to-Speech (TTS) features and keyword extraction for retrieving related Wikipedia and Google results.
- *Applications:* Alt-text automation, support for visually impaired users, improved content indexing
- ***Tech Stack:*** Python, BLIP, Transformers, NLP, Text-to-Speech, Web Scraping (Wikipedia, Google)

TECHNICAL SKILLS:

- **Languages:** Python, SQL, C
- **ML Libraries:** Scikit-learn, Pandas, NumPy, Matplotlib, Transformers
- **Concepts:** Regression, Classification, Clustering, NLP, Generative AI (basic), Feature Engineering
- **Tools:** GitHub, Jupyter Notebook, VS Code
- **Databases:** MySQL
- **Cloud & DevOps:** AWS (EC2, S3)
- **Soft Skills:** Analytical Thinking, Team Collaboration, Rapid Learning

WORKSHOPS ATTENDED:

- **Amazon Web Services:** Participated in AWS workshop at JNTUK; gained exposure to cloud fundamentals, EC2, and S3

CERTIFICATIONS:

- **NPTEL Certification:** Data Structures and Algorithms using java.

KEY HIGHLIGHTS:

- Strong foundation in ML, NLP, and real-world data modeling.
- Experience with Python
- Passionate about building intelligent business applications.
- Capable of working with APIs, SQL, and deploying ML workflows.

DECLARATION:

I hereby declare that the above information is true to my knowledge and the proofs of certification will be provided on request.

Date: 11-06-25
Place: Visakhapatnam. **Signature:** Hyma