Reddibabu Upputolla

M.Tech Additive Manufacturing - TA

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Degree	University/Institute	Year	CGPA/Marks(%)
M.Tech Additive Manufacturing - TA	IIT Hyderabad	2025	7.22
Mechanical Engineering	IIIT RK VALLEY	2021	8.49
XII (Board of Intermediate Education Andhra Pradesh)	IIIT RK VALLEY	2017	8.33
X (Board of secondary Education Andhra Pradesh)	ZP High School	2015	9.70

SCHOLASTIC ACHIEVEMENTS

- Awarded the **National Means-cum-Merit Scholarship** in 8th grade (2013).
- Secured **AIR-1784** in the **GATE 2023 Mechanical Engineering paper.**
- Selected for the **Chekumuki Science Talent Test** in 9th grade (2014).

POSITIONS OF RESPONSIBILITY

Cricket Team Captain, Mandal Level Tournament (2014)
- Led the team to victory in challenging conditions through strong leadership and teamwork.

Member, PRAYAS Club
- Volunteering to provide free education to rural children, fostering their academic development.

SKILLS

- **Programming Languages**: Python ,FORTRAN, Basics of C++
- **Databases**: MySQL, MongoDB
- **Version Control**: git
- **Data Mining**: Numpy , Pandas , Matplotlib , Seaborn , Scipy
- **MLops** : basics of Docker , Kubernetes
- **Frameworks** : Tensorflow , PyTorch , Scikit-learn
- **Other Tools**: Microsoft Word , Excel , Power Point , PowerBI

RELEVANT COURSES

- **Data Science & Programming:** Python Programming , Machine Learning and its Applications , Mathematics: Algebra, Probability, Calculus, Statistics, Statistics

Online Certifications:
- Machine Learning Specialization-Andrew Ng , Introduction to programming , Python & its libraries (Kaggle) , Tensorflow , SQL , Deep Learning (freeCodeCamp)
- AI And Machine Learning Full Course (IBM) , Data Analytics For Beginners (IBM) , A beginner's guide to artificial intelligence, machine learning, and cognitive computing (IBM)

PROJECTS

Student Score Prediction Project(github)
Tools: Python, scikit-learn, Docker, AWS, Kaggle
- Imported and preprocessed a dataset from Kaggle, categorized features into **numerical** and **categorical**, and applied **one-hot encoding**.
- Managed **data ingestion**, **transformation**, and **model training**, and developed a **pipeline using scikit-learn**.
- **Deployed the machine learning model** using Docker and **hosted the application on AWS**.

Plant Disease Prediction Using Deep Learning ([git](git)):
- **Developed a CNN-Based Model for Plant Disease Detection**: Built a deep learning model using Convolutional Neural Networks (CNNs) and processed a large dataset of over 50,000 healthy and infected leaf images, enabling accurate disease classification to address crop yield losses.
- **Model Deployment with Streamlit**: Gained experience in creating an interactive web application using Streamlit, making it easier to deploy machine learning models for real-world use.
- **TensorFlow and Keras**: Gained practical knowledge in using TensorFlow and Keras for designing, training, and deploying deep learning models.

EXTRACURRICULAR

3rd Place, 5 km Running Marathon, IIT Hyderabad
- Secured 3rd position in the annual marathon.

LANGUAGES

- Telugu , English , Hindi (Basic)

WORK EXPERIENCE

IBM Virtual Internship on Mastering Data with Machine Learning :
- **Fundamentals of Machine Learning and Deep Leaning**: Gained a strong understanding of key concepts, including supervised and unsupervised learning, classification, regression, clustering, and deep learning techniques using multi-layer neural networks.
- **Data Preprocessing Techniques**: Learned methods for cleaning and preprocessing data, such as handling missing values, feature scaling, and encoding categorical variables.
- **Model Selection and Evaluation**: Acquired knowledge on selecting appropriate machine learning models, understanding performance metrics, and evaluating models using cross-validation.
- **Hands-on Experience with Tools and Libraries**: Gained practical experience using popular ML libraries, including Scikit-learn, Pytorch ,TensorFlow and Keras.