puppala.mohan121@gmail.com

+918790655277

3-68/A EBC Colony, Vellaluru, Ponnur Mandal, Guntur District, AP - 522212

PUPPALA MOHANA KRISHNA

DATA SCIENTIST / ML ENGINEER

CAREER OBJECTIVE

Enthusiastic and results-driven individual with a strong passion for data science and machine learning, seeking to contribute to an innovative organization. Dedicated to continuously enhancing my technical skills and applying advanced analytical techniques to solve real-world problems.

EDUCATION

B Tech **2022 - 2026**
SRKR Engineering College, Bhimavaram **9.38** CGPA

Intermediate **2020 - 2022**
Bhashyam Junior College 98.2%

SSC **2019 - 2020**
Narayana English Medium School,Guntur 96.2%

CERTIFICATIONS

- Google AIML Internship - EDUSKILLS
- Machine Learning with Python - IBM
- Data Analysis with Python - IBM
- Data Analytics - DELOITTE
- Data Analytics Essentials - CISCO
- Introduction to Data Science - CISCO
- Data Visualization: Empowering Business with Effective Insights - TATA
- Data Visualization with Python - IBM
- Foundation of Cloud IoT Edge ML - NPTEL
- Programming, Data Structures and Algorithms Using Python - NPTEL
- Python Programming Essentials 1- CISCO
- Python Programming Essentials 2- CISCO

TECHNICAL SKILLS

LANGUAGES :

- Python, C/C++, Java, R, HTML, CSS, JS

LIBRARIES & PACKAGES :

- Pandas, NumPy, Matplotlib , Scikit-Learn

TOOLS & PLATFORMS :

- Jupyter Notebook, MS OFFICE, LINUX

ACHIEVEMENTS

- Won 3rd Prize at HackOverflow – National Level Hackathon for developing the Agri-Connect project, an AI-based farming support system.

INTERNSHIP at NIELIT

ARTIFICIAL INTELLEGENCE AND MACHINE LEARNING USING PYTHON **2024**

- Gained hands-on experience in developing and evaluating machine learning and deep learning models using Python.
- Implemented supervised learning algorithms including KNN, Decision Tree, and Support Vector Machine (SVM).
- Applied unsupervised techniques such as K-Means, Fuzzy C-Means, and DBSCAN for clustering tasks.
- Performed dimensionality reduction using Principal Component Analysis (PCA).
- Built and trained Artificial Neural Networks (ANN) with Backpropagation and Convolutional Neural Networks (CNN).
- Developed a Heart Attack Prediction model with performance evaluation based on classification metrics.
- Utilized tools and libraries: Scikit-learn, Keras, NumPy, Pandas, Matplotlib, Seaborn.

PROJECTS

Agri-Connect: AI-Powered Farming Support System

- Developed an AI-based system to assist farmers with crop disease detection, market price prediction, and sustainable agricultural practices.
- Built machine learning models using regression and CNNs in TensorFlow/PyTorch for predicting market prices and detecting crop diseases from images.
- Implemented satellite and weather-based recommendations for irrigation, crop rotation, and eco-friendly practices using APIs and public datasets.
- Integrated real-time weather and soil data from APIs like OpenWeatherMap, NASA EarthData, and USDA for personalized suggestions.
- **Algorithms & Tools:** Python, TensorFlow, PyTorch, CNN, Scrapy, BeautifulSoup, FastAPI, Flask, Firebase, Amazon S3.

BackOrder Prediction Model

- Developed a predictive classification model to forecast whether an item would go on backorder using inventory and supply chain features.
- Preprocessed large datasets by handling missing values, balancing classes, and scaling features to enhance model accuracy and reliability.
- Built the model using Random Forest Classifier, applied One-Hot Encoding for categorical variables, and performed feature selection to improve model performance.
- Implemented hyperparameter tuning using GridSearchCV and evaluated model performance with appropriate classification metrics.
- **Algorithms & Tools:** Python, Pandas, NumPy, Scikit-Learn, Random Forest, GridSearchCV, Jupyter Notebook.