TUSHAR KUMAR

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Personal   Portfolio: https://tusharkumar008.github.io/Portfolio/

Executive Summary

Driven AI and Data Engineering professional with hands-on experience in machine learning, data analytics, and cloud technologies. Skilled in Python, TensorFlow, and AWS, with a strong track record of delivering data-driven projects that optimize processes and improve decision-making.

Experience

Pentapolis Foundation   Jun 2025 - PRESENT
Graduate Engineer Trainee
Educational Program Effectiveness Dashboard
- Implemented cohort analysis and statistical modeling to analyze completion rates, assessment scores, and employment outcomes, improving program ROI visibility by 40%.
- Developed an interactive analytics dashboard using Python, SQL, and Tableau to measure training program effectiveness across 500+ students with real-time KPI tracking.

AI Bootcamp Mentor
- Mentored BTech interns in AI Bootcamp at Pentapolis Foundation, delivering training in AI platforms, and data analytics through hands-on projects.
- Guided learners in real-world solution development and teamwork, strengthening technical and problem-solving skills.

Pentapolis Foundation   Dec 2024 - Apr 2025
Management Trainee | INTERNSHIP (4Months)
- Designed a Face Attendance System using OpenCV, PHP, and Laravel, enabling real-time face recognition and automated attendance tracking.

EBest Solution Pvt. Ltd.   Aug - Nov 2023
Cloud AI Intern | INTERNSHIP
- Developed a chat bot using Python, Streamlit, and the Replicate API, based on the Llama-2 70b chat LLM released by Meta.
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Certifications

- Google Data Analytics Professional Certificate, *COURSERA*
- Google for Developers AI & ML Virtual Internship, *AICTE*
- Introduction to Machine Learning, *NPTEL*
- AWS Academy AI & ML Virtual Internship, *AICTE*

Skills

- Programming Languages & Frameworks: Python, TensorFlow, Keras, PyTorch, Scikit-learn, SQL, MongoDB
- Cloud: AWS, Azure, GitHub
- Machine Learning & AI: Machine Learning, Deep Learning, Data Analysis, Feature Engineering, Hyperparameter Tuning, Model Evaluation, Classification/Regression
- Data Visualization: Power BI, Matplotlib, Tableau
- Emerging AI: Prompt Engineering, LLM Integration

Education

NSHM KNOWLEDGE CAMPUS   2021–2025
Bachelor of Engineering, Artificial Intelligence & Machine Learning
CGPA: 8.39/10

K.C.P Siddhartha Adarsh Residential Public School   2020–2021
12th Percentage: 91.6%
10th Percentage : 87.4%

Projects

- **Final Year Project: Bio-Lens – Plant Disease Detection System**
  - Designed an AI-driven web platform for detecting plant diseases using image processing and machine learning.
  - Led data collection and integration efforts, improving dataset quality by 85% through ETL pipelines.
  - Executed comprehensive data cleaning and visualization workflows, achieving 95% accuracy in trend detection using Matplotlib and Seaborn.
  - Enabled interactive dashboards for biological data interpretation, supporting better agricultural decision-making.

- **NutriSense: AI-Based Food Component Detector (Ongoing)**
  - Developing an AI-driven platform that detects and quantifies food components such as proteins, calories, vitamins, and allergens using computer vision and machine learning.
  - Data Cleaning and Preparation: Successfully completed data cleaning phase by removing inconsistencies and noise from raw food component datasets, improving data quality by over 85%.