Palash Chaturvedi

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EDUCATION

VIT Bhopal University *B.Tech in Computer Science and Engineering*   September 2022 – Present
- CGPA: 8.55/10.00
- Coursework: DSA, Artificial Intelligence, Machine Learning, Operating Systems, Computer Networks

Indian Institute of Technology Madras *BS in Data Science and Applications*   January 2023 – Present
- CGPA: 6.57/10.00
- Coursework: Data Science, Computer Architecture, Machine Learning Algorithms, Maths, Statistics

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, Typescript, SQL
Frameworks & Tools: Git, GitHub, Figma, VS Code
Libraries: Pandas, NumPy, Matplotlib, Tensorflow, ScikitLearn, Pygame
Relevant Coursework: OOPs with C++ and Java, DBMS, Operating Systems, Computer Networks

PROJECTS

Smart Collaborative System for Industry 5.0 | *Cloud Computing, AI, IoT*
- Developing an IoT, AI and cloud-based system using predictive analytics to optimize urban infrastructure.
- Enhancing data collection efficiency by 25% using IoT sensors, ML algorithms and cloud computing.
- Targeting a 20% improvement in traffic flow, optimize waste collection and enhance energy distribution by integrating the model into a robust C++ application.

Predicting Profits for different startups | *Python, Regression Models*
- Developed and validated 5 regression models to predict startup profits using R&D, marketing and admin costs.
- Optimized data analysis by 30% through Python libraries (Scikit-Learn, Pandas) for efficient model building.
- Derives financial insights for decision-making by identifying the best-suited model with over 85% accuracy.

Image Captioning using AI | *Neural Networks, NLP, AI & ML*
- Increased caption accuracy by 20% with AI/ML model development for generating relevant image captions.
- Boosted image captioning accuracy by 15% by integrating CNNs and NLP techniques.
- Built a Java-based interface and optimized neural networks, achieving 90% caption accuracy.

CERTIFICATES

Introduction to Generative AI, Google Cloud
- Completed hands-on training in Generative AI, model types, applications and development using Google tools.

Python for Data Science and Machine Learning Bootcamp, Udemy
- Mastered data analysis and machine learning with Python libraries like NumPy, Pandas and TensorFlow.

Applied Machine Learning in Python, Coursera
- Explored data clustering, predictive models, and feature building for machine learning analysis.

ACHIEVEMENTS AND AWARDS

Badminton: Selected for State level tournament. Gold medal at college league among 50+ participants.
Swimming: Competed at the State level championship. Achieved Silver medal at District level.
State Talent Search Examination: Ranked among the top 5% of candidates nationwide.
National Mathematics Olympiad: Won Gold Medal in National Mathematics Olympiad.