

Arpita Nanda

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EDUCATION

VIT Bhopal University

September 2023 - Present

B.Tech in Computer Science and Engineering

CGPA: 9.2/10

Relevant Coursework: Object-Oriented Programming, Databases, Calculus and Laplace Transforms, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Computer Architecture and Organization, Design and Analysis of Algorithms, Machine Learning, Advanced Data Structures and Algorithms.

Jagran Public School

April 2010 - March 2022

Higher Secondary Education

95.2%

Relevant Coursework: Physics, Chemistry, Mathematics, Python Programming, Databases.

Secondary Education

93%

Relevant Coursework: Mathematics, Science, Social Science, English, Hindi, Physical Education.

SKILLS

Programming Languages: Java, Python, HTML, CSS, JavaScript, SQL

Technologies & Tools: Git, GitHub, MySQL, Canva, Visual Studio Code, Adobe Express, Python for Data Analysis, Pandas, NumPy, Matplotlib, Jupyter Notebook, Basic Statistics, Seaborn, TensorFlow, Scikit-learn

WORK EXPERIENCE

CodSoft

Feb 2024 - Mar 2024

Python Programming Intern

- Designed three Python applications (To-Do List, Calculator, Contact Management System) with intuitive interfaces, employing object-oriented programming and modular design, improving user interaction efficiency by 20%.
- Implemented CRUD operations and error-handling, utilizing Python libraries like Tkinter and file-handling techniques, ensuring robust functionality and seamless data management.
- Enhanced task management workflows through optimized search and storage algorithms, streamlining user processes and boosting productivity by 15%.
- Technologies and Techniques Used: Python, Tkinter, File-Handling, Object-Oriented Programming, User Interface Design

PROJECT WORK

AgriSaarthi - Smart Farming Assistant

Jun 2025

- Built a Flask platform for crop, fertilizer, and disease recommendations using soil NPK, pH, climate, and leaf imagery.
- Created ML pipelines with Logistic Regression (82%), Random Forest (87%), and CNN (91%) using label encoding.
- Reduced input waste by 18% and increased yield by 12% in 50+ farmer simulations.
- Utilized Python, Flask, PostgreSQL, Scikit-learn, TensorFlow/Keras, Joblib, OpenCV.

Fitness Tracker Using ML

Sep 2024

- Developed an ML fitness tracker to classify barbell exercises using MetaMotion data.
- Applied Butterworth filtering and PCA for feature engineering.
- Optimized models with grid search, achieving 99.5% accuracy, and 15% error reduction.
- Utilized Python, Pandas, NumPy, Scikit-learn, and Matplotlib for implementation.

AWARDS AND CERTIFICATES

- Endorsed in Machine Learning, NPTEL Silver+Elite, IIT Madras, 2025, 75% score.
- Winner, Bug Blitz 2024, VIT Bhopal, 1st Position.
- Accredited in Python Essentials, VITYarthi.
- Certified in Fundamentals of AI & ML, VITYarthi.
- Semi-finalist, Kharagpur Data Science Hackathon 2025.
- Completed DrGVishwanathan, 100 Days of Code Challenge.
- Participant, Nation Building Case Study Competition 2025.