**Binita Chhetri**

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# Summary

I am a motivated, hardworking Data Analytics major student with hands-on experience conducting and leading Data Science and Machine Learning research and projects. I have a proven record of demonstrating my leadership, problem-solving, technical, communication, and collaboration skills through successful outcomes and presentations at conferences, and symposiums to diverse audiences.

**Technical Skills & Abilities**

Python, R, SQL, MongoDB, JAVA, MATLAB, TABLEAU, Power BI, AWS, Azure, Hadoop, MS Excel

Deep Learning, LLMs, Vision Transformers, NLP, Optimization, Consumer Behavior Analytics, Market Analysis

# Experience

Research Intern | West Virginia University | 5/2024 – 7/2024| Autonomous Drone for forested environments

· Led the team, and implemented a deep learning model for object detection, ROS for code flow, and Python for Programming. Significantly improved the Drone’s navigation increasing the research team’s output by 40%.

Volunteer Analyst | Frederick Community Pharmacy | 5/2022 – 1/2023 | Frederick, MD, 21702

. Conducted simple data analysis, sales forecasting, and linear regression on MS Excel to optimize inventory sales. Supported the pharmacy team in inventory management, answering calls, and scheduling appointments.

# Education

**Bachelor of Science in Data Analytics - Advanced**| 2023-2024| Shepherd University, WV

**Associate of Science in Applied Mathematics** | 2022-2023 | Hagerstown Community College, MD

# Relevant Coursework

Business Analytics, Data Structures & Algorithms, Big Data Analytics, Probability & Statistics, Linear Algebra, Calculus, Operations Research, Numerical Analysis, Mathematical Modeling, Database Management System

# Projects

GitHub profile - <https://github.com/Binitachhetri99>

DISEASE PREDICTION SYSTEM using Python (Capstone Research Group Project – Group Leader)

· Libraries used - torch, transformers, torchvision, Sci-kit learn, Streamlit, Tkinter.

· Inspired team members at integrating open-source large language multimodal model, Llama 3.2 Vision instruct, Vison models: Vision transformer model: Google-ViT base patch, Convolutional Neural Network model, Segment Anything (SAM) model for Skin Cancer detection. Improved the accuracy of the model by 50%.

SALES ANALYSIS using Python

· Performed data cleaning and preprocessing and Exploratory Data Analysis on sales data using Python libraries to extract insights and identify trends to optimize sales using Pandas, and Matplotlib.

TRAVELING SALESMAN OPTIMIZATION PROBLEM using Python

· Implemented Ant Colony Optimization approach to solve the traveling salesmen problem, Yielded the near-optimal solution with improved run-time and space complexity.

REAL ESTATE PRICE PREDICTION using Python

· Used Python libraries sci-kit learn and implemented linear regression to build a predictive real estate price prediction model. Used dash framework to make a dash application.

COFFEE SALES ANALYSIS using Excel

· Used advanced Excel functions, including XLOOKUP, and VLOOKUP, to streamline data retrieval and analysis, analyzed sales trends, and developed interactive sales dashboards for stakeholders.