Kavya Bommineni

(925) 501-8715 | kbomm3@unh.newhaven.edu | LinkedIn: https://www.linkedin.com/in/bommineni-kavya-239182209 | GitHub: https://github.com/bomminenikavya

PROFESSIONAL SUMMARY

Master's student in Data Science with a strong academic foundation and practical experience in Artificial Intelligence and Data Analytics. Demonstrated proficiency in programming languages such as Python and Java, along with skills in statistical modeling, machine learning, data visualization, and cloud technologies like AWS. Experienced in tools and libraries including Scikit-learn, Pandas, NumPy, PowerBI, and SQL. Strong track record of contributing to impactful projects such as AI-powered regulatory voicebots, facial recognition systems for missing person identification, and drowsy driver detection using computer vision—showcasing advanced problem-solving abilities and technical expertise. Eager to leverage cutting-edge AI and data science methodologies to solve real-world problems and drive innovation in data-driven industries. Actively seeking opportunities to apply academic knowledge and hands-on project experience in a dynamic professional environment.

CORE COMPETENCIES:

Data Science & Machine Learning:	▪ Regression, Classification & Clustering ▪ Statistical Analysis ▪ Predictive Modeling
Programming & Tools:	▪ Python ▪ SQL ▪ Java ▪ PowerBI ▪ AWS ▪HTML&CSS
Python Libraries:	▪ Numpy ▪Pandas ▪Matplotlib ▪Scikit-learn
Research & Analysis:	▪ Data Exploration ▪ Optimization Techniques ▪ Feature Engineering
Data &AI Product Management:	▪ Product Roadmap Planning & Stakeholder Management ▪ Business Planning ▪ Product Lifecycle Management

EDUCATION

Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT **[**Dec] [2026] (expected)**
Master of Science in Data Science GPA: 4.0

- **Coursework:**
  ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Data Engineering ▪ Machine Learning ▪ Big Data ▪ Data Visualization
- **Tools:**
  ▪ Python ▪ R ▪ SQL ▪ Numpy ▪Pandas ▪ Matplotlib ▪ TensorFlow ▪ Scikit-learn ▪ PowerBI ▪ AWS Athena
- **Achievements:**
  ▪ Dean's List / Honors- Awarded Dean's Scholarship

Jansons Institute of Technology ▪ Coimbatore, TN, India [Aug] [2024]
Bachelor of Technology in Artificial Intelligence and Data Science GPA : 8.6/10.0

- **Coursework:**
  ▪ Probability and Statistics ▪ Linear Algebra ▪ Design and Analysis of Algorithms ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Database Design and Management ▪ Text Analytics ▪ Big Data Management
- **Tools:**
  ▪ Python ▪ R ▪ SQL ▪ Numpy ▪Pandas ▪ Matplotlib ▪ Scikit-learn
- **Achievements:**
  ▪ Secured second place in the Intel OneAPI Hackathon for designing a Food Items Classification and Categorization system leveraging OneDNN.

PROFESSIONAL EXPERIENCE

Suven Consultants & Technology Pvt.Ltd [April] [2022]–[May] [2022]
Data Analytics Intern

- Performed in-depth analysis of meteorological data, uncovering patterns and trends to support environmental insights and decision-making.
- Contributed to handwritten digit recognition project using Scikit-learn, applying machine learning algorithms for accurate classification.

Kavya Bommineni

(925) 501-8715 | kbomm3@unh.newhaven.edu | LinkedIn: https://www.linkedin.com/in/bommineni-kavya-239182209 | GitHub: https://github.com/bomminenikavya

- Designed and implemented predictive models to process and interpret large datasets, improving the accuracy and efficiency of data analysis workflows.
- Created clear and informative visualizations to communicate data findings, enhancing stakeholder understanding of project outcomes.

DATA & AI PROJECTS AND PORTOFOLIO

AI Mine Assist-Voicebot ▪ Coimbatore, TN, India [March] [2024]– [May] [2024]

Bachelor of Technology in Artificial Intelligence Data Science

- Developed an always-on, AI-powered voicebot using **Natural Language Processing (NLP)** and **Large Language Models (LLMs)** to handle real-time queries related to mining regulations, including **Acts, Rules, DGMS Circulars, and land-related laws**.
- Technologies Used: Python, NLP, LLMs, Speech-to-Text APIs
- Improved stakeholder access to critical regulatory information, reducing inquiry response time by over **60%**.
- Enhanced compliance accuracy and transparency by providing immediate, consistent, and searchable responses.

Finding Missing Person Using AI ▪ Coimbatore, TN, India [Sept] [2023]– [Dec] [2023]

Bachelor of Technology in Artificial Intelligence Data Science

- Developed an AI-based face recognition system to assist law enforcement and the public in locating missing individuals, particularly children.
- Technologies Used: Python, OpenCV, Face Recognition Libraries, SQL
- Automated facial matching against a centralized database of reported missing persons, significantly **reducing manual search time**.
- Included dynamic status tracking features to indicate whether a case is **ongoing** or **resolved**, improving communication and transparency.
- Integrated a user-friendly interface for authorities and civilians to upload images and receive immediate feedback.

Drowsy Driver Detection ▪ Coimbatore, TN, India [March] [2023]– [May] [2023]

Bachelor of Technology in Artificial Intelligence Data Science

- Developed a computer vision-based system to detect early signs of driver drowsiness and issue real-time alerts to prevent road accidents.
- Technologies Used: Python, OpenCV, Dlib, Eye Aspect Ratio (EAR) Algorithm
- Implemented facial landmark detection to monitor eye movement and blink patterns, triggering alerts before full loss of attentiveness.
- Designed the system to function accurately **regardless of eyewear**, improving reliability across diverse user conditions.

PROFESSIONAL Portfolio ▪ CT, United States

- Access my professional portfolio: https://bomminenikavya.github.io/Git-Portfolio/

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

Machine Learning with Python	*Powered by IBM Developer Skills Network*	[Mar] [2022]
Data Analysis with Python	*Powered by IBM Developer Skills Network*	[Mar] [2022]
AWS Academy Cloud Foundations	*AWS Academy Graduate*	[Nov] [2022]