

PRIYANKA SINGH

+1(986) 230-5580 | psing21@unh.newhaven.edu | LinkedIn: [LinkedIn](#) | GitHub: [Github profile](#)

PROFESSIONAL SUMMARY

Master's student in Data Science with a solid foundation and expertise in Statistical analysis, Machine Learning, data Visualization, Data Analysis. Demonstrated proficiency in programming languages such as Python, SQL, HTML, statistical modeling, and tools like Power BI, ETL, Entra ID, Putty, AWS. Eager to leverage cutting-edge machine learning and data science methodologies to address complex challenges in the data science field. Actively seeking opportunities to translate academic research into impactful solutions in a dynamic, data-driven environment.

CORE COMPETENCIES:

Data Science & Machine Learning:

▪ Statistical Analysis ▪ Predictive Modeling ▪ Big Data Analytics

Programming & Tools:

▪ Python ▪ SQL ▪ C ▪ AWS ▪ HTML

Data Analysis & Research:

▪ Data pipelines ▪ Matplotlib ▪ Numpy ▪ Pandas

Data & AI Product Management:

▪ Cloud Computing ▪ Data Engineering ▪ Data Visualization ▪ Data Analysis ▪ Business Planning ▪ Machine Learning

EDUCATION

Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT

August 2024 (expected 2026)

Master of Science in Data Science

▪ Coursework:

▪ Machine Learning ▪ Big Data ▪ Data Visualization ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Leadership in Data & AI Products ▪ Data Ethics ▪ Data Engineering

▪ Graduate Assistant:

▪ GA, ARC: Assisted in teaching courses on Physics and Mathematics

▪ Tools:

▪ Python ▪ SQL ▪ TensorFlow ▪ Hadoop ▪ Tableau ▪ AWS ▪ Matplotlib ▪ Power BI ▪ Git ▪ Scikit-learn

PROFESSIONAL EXPERIENCE

University of New Haven ▪ West Haven, CT

August 2024-present

Accessibility Graduate Assistant & Notetaker, Student Services / Accessibility Resource Center (ARC)

- Provided academic assistance to students with disabilities by providing notetaking, scribing, reading, and exam proctoring assistance, including working with braille and braille printers.
- Assisted visually impaired students in physics lectures and labs, by taking notes, guiding through course material, addressing queries, guiding experiments, and operating lab equipment to ensure participation and comprehension.
- Assist students directly with accommodation forms and provide Physics in-class/lab support through notetaking, Braille scribing, and use of assistive technologies.

University of New Haven ▪ West Haven, CT

June 2025-present

Research Assistant (RA)

- Conducting research on Explainable AI (XAI) by developing models to classify Python 2 vs Python 3 code and highlight decision influencing patterns using techniques like regex, MalConv, and ReLU.
- Designing XAI-assisted tools (VS Code plugin) to help developers interpret model outputs and understand code behavior.

Kyndryl ▪ Noida, Uttar Pradesh, India

May 2021- August 2024

Technical and Security Systems Associate, [Luminor Group AS / Identity & Access Management (IAM)]

- Analyzed and processed large datasets using Python, PowerShell, SQL, and Excel for automated onboarding/offboarding processes and extracted bulk user lifecycle data for generating actionable insights.
- Identity & Access Management: Implemented and maintained IAM solutions, including user access controls, RBAC, MFA, and SSO for enhanced security. Developed dashboards and visual reports to monitor user lifecycle trends, access patterns, and compliance metrics.

PRIYANKA SINGH

+1(986) 230-5580 | psing21@unh.newhaven.edu | LinkedIn: [LinkedIn](#) | GitHub: [Github profile](#)

- ETL-Extracted data from various sources, transformed it by cleaning, formatting, and applying necessary modifications to meet the requirements, then loaded the processed data into database tables for further analysis and reporting.
- Collaborated with cross-functional teams to implement data-driven solutions and created comprehensive technical documentation and training materials that enhanced team performance with 15+ staff, which enhanced team proficiency by 20%.
- Worked on implementing encryption techniques to protect sensitive data, in cloud environments. Worked with Unix servers for user and group creation & management, enabling efficient access management, ensuring compliance and improving data security.
- Utilized SQL, Python, Power BI, Excel and PowerShell scripting to automate data workflows. Gained hands-on experience with IAM tools like IBM Secure Verify Governance Tool, Microsoft Entra, UAT, Privileged Access Management (PAM) Core, Confluence.

IBM ▪ Noida, Uttar Pradesh, India

May 2019- May 2021

Senior Systems Administrator, [Alstom (formerly-Bombardier) Group / Identity & Access Management (IAM)]

- Utilized PowerShell & SQL to extract and analyze user access data, generating detailed reports to identify trends and potential security risks to optimize user management.
- Managed user IDs and access rights using IAM tools like UAT (User Administration Tool), Putty, Active Directory (AD), Azure AD, ServiceNow, Citrix Receiver, Okta, and Privileged Account Manager.
- Managed user access requests for AIX and Linux servers, ensuring compliance and proactive risk management.
- Utilized diverse IAM tools like Okta, SecurID, and Azure Explorer to enhance security and system performance. Conducted quality testing, failure analysis, data analysis, and documentation.

DATA & AI PROJECTS AND PORTOFOLIO

University of New Haven ▪ West Haven, CT

August 2024–Present

Master of Science in Data Science/Tagliatela College of Engineering

- **Airbnb Data Analysis** – Analyzed Airbnb data using Python (Pandas, NumPy, SciPy) for EDA, built visualizations (Matplotlib, Seaborn), and extracted insights on high-demand areas, pricing, and seasonal trends. Developed a predictive model to forecast rental prices based on location, amenities, and customer ratings, improving accuracy in pricing recommendations.
- **Tic Tac Toe AI Agent** – Developed an intelligent game agent in Python using Minimax with Alpha-Beta pruning. Optimized decision-making speed and accuracy, demonstrating practical applications of search algorithms in AI.
- **Country-Capital Matching Game** – Created an adaptive ML-driven quiz game that predicts question difficulty using classification models. Implemented dynamic adjustment of questions based on player performance to enhance engagement and learning.
- **Real-time Data Streaming** – Built a real-time and batch ETL pipeline on AWS using S3, Lambda, Kinesis, and Athena. Enabled continuous ingestion and analysis of large-scale streaming datasets, improving data availability for analytics.

HCL Technologies ▪ Noida, UP, India

Internship at HCL

- **CRM System:** Developed a CRM dashboard, focus on customer insights, and enterprise-level implementation in a collaborative team. CRM System.

PROFESSIONAL PORTFOLIO ▪ West Haven, United States

- Data & AI Projects | Data Science, Machine Learning, Data Analysis & Visualization, Data Engineering
 - Access my professional portfolio:

PRIYANKA SINGH

+1(986) 230-5580 | psing21@unh.newhaven.edu | LinkedIn: [LinkedIn](#) | GitHub: [Github profile](#)

CERTIFICATIONS

Data Science Foundations: Data Engineering	<i>LinkedIn</i>	January 2025
HTML Essential Training	<i>LinkedIn</i>	February 2025
Python: Working with REST and Web Data	<i>LinkedIn</i>	February 2025
Microsoft Azure Security Technologies: IAM	<i>Kyndryl, India</i>	May 2024
Google Cloud Essentials Certified	<i>IBM, India</i>	September 2023
The Ultimate MySQL Bootcamp	<i>Udemy</i>	August 2025

LANGUAGES

English
Hindi