Priyanshi Yadav

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ **GPA:** 4.0
Master of Science in Software Engineering May 2025
Honors: Provost Masters Scholarship
Related Courses: Software Development, Testing and Maintenance, Requirements Gathering and Analysis, Software Architecture, Data Mining, Data Acquisition/Modeling/Analysis, Applied ML, AI for Software Engineering

University of Petroleum and Energy Studies, Uttarakhand, India
Bachelor of Technology in Computer Science and Engineering May 2018

SKILLS

Programming: Python, SQL
Technology and Tools: Hadoop, Spark, Hive, Kafka, Airflow, NumPy, Pandas, Linux, Visual Studio, IntelliJ, Git, Jenkins, CircleCI, Overleaf (LaTeX), Selenium, JIRA, Redmine, MySQL, Scikit-learn, TensorFlow, Keras
Languages: English, Hindi
Certifications: Introduction to Artificial Intelligence (AI), Hadoop Foundations - Level 1, Google – Data Data Everywhere

WORK EXPERIENCE

Stevens Institute of Technology, Hoboken, NJ, USA
Student Course Assistant - Graduate Sep 2024 – Dec 2024

- Reviewed and graded coursework with 96% on-time feedback, ensuring alignment with course objectives.
- Synthesized insights to guide 110+ students on Lean, Crystal, Scrum, Kanban, and other Agile principles.

Apple Inc., Cupertino, CA, USA
Software Engineer Intern May 2024 – Aug 2024

- Detected, documented over 39 defects using internal tracking tools, enhancing the final product quality.
- Collaborated with the cross-functional teams to address defects and delivered weekly status reports, highlighting daily progress to management.
- Incorporated collaborative tools to track testing progress, ensuring 100% adherence to project timelines.

Netcracker Technology, Pune, MH, India
Software QA Engineer Nov 2022 - Jul 2023

- Designed test scenarios and test cases resulting in a 15% decrease in post-release defects.
- Reported and had closure of 100% of defects submitted in defect tracking tool like JIRA.
- Communicated and collaborated with the development team in the defect fixing process.
- Incorporated automation test suite to reduce testing time by 30% and deliver consolidated reports that improved decision-making at senior management level.

Sterlite Technologies Limited, Ahmedabad, GJ, India
Software QA Engineer Apr 2019 - Nov 2022

- Initiated Python automation, resulting in a 20% efficiency gain and reduced manual testing.
- Orchestrated and validated data pipeline, scheduled through Airflow, ensuring 99% accuracy.
- Tested real-time data streaming using Kafka, achieving a 95% data accuracy rate.
- Analyzed SRS, design, and UI specifications for test scenario and case preparation.
- Mentored and facilitated new team members, yielding a 25% boost in the onboarding efficiency.
- Reduced bug backlog by 18% through collaboration with development teams.

Globus Eight India Pvt. Ltd., Gurgaon, HR, India
Specialist (Software) Aug 2018 - Mar 2019

- Built a web application using PHP, HTML, CSS, and MYSQL, improving the performance by 30%.
- Developed consumer-oriented features resulting in a 20% increase in user engagement.
- Boosted customer satisfaction by reducing support requests 15% through issue resolution.

ACADEMIC PROJECTS

Stevens Institute of Technology, Hoboken, NJ

Predicting Mental Health Medication Usage and Demographic Characteristics Sep 2024 – Dec 2024

- Imputed missing values, applied quantile binning on medication usage categories.
- Mitigated class imbalance with oversampling and undersampling on demographic characteristics.
- Designed a hierarchical neural network, leveraging shared feature layers for improved accuracy and interpretability across tasks.
- Applied regularization, dropout, and early stopping to prevent overfitting and enhance generalization.
- Identified HNN as the best performer with 86% (Group) and 81% (Subgroup) accuracy, outperforming traditional ensemble methods across all metrics.

Stevens Institute of Technology, Hoboken, NJ

Exploring Prompt Patterns in AI-Assisted Code Generation Sep 2024 – Dec 2024

- Assessed 7 DevGPT prompt patterns to optimize developer-AI interactions.
- Automated classification of 20,000 conversations using keyword algorithms.
- Calculated effectiveness scores based on response length, token ratio, and sentiment to rank patterns.
- Identified "Context and Instruction" and "Recipe" patterns as the most effective, achieving high-quality outputs with minimal interactions.
- Demonstrated that structured patterns reduce iterative interactions by 50% compared to unstructured prompts.

Stevens Institute of Technology, Hoboken, NJ

Tree Health Prediction Jan 2024 – May 2024

- Managed missing values with mode imputation and performed; binarized the "health" target variable.
- Mitigated class imbalance with undersampling for unbiased predictions.
- Applied Label Encoding, MinMaxScaler, and chi-square test for feature engineering.
- Evaluated 5+ binary classification algorithms, identifying Random Forest as the best performer based on accuracy, precision, recall, F1-score, and confusion matrix analysis.

Stevens Institute of Technology, Hoboken, NJ

Refactoring and code review metrics Sep 2023 – Dec 2023

- Investigated refactored code review requests for Qt system, highlighting review challenges.
- Quantitatively analyzed 2,348 records for refactored and non-refactored code review requests using Pandas, NumPy, and SciPy.
- Developed taxonomy via qualitative analysis, revealing review process challenges.