Jonesh Shrestha

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EDUCATION

DePaul University   **Chicago, United States**
Masters of Science in Computer Science   *Sept 2024 - July 2026*
Cumulative GPA: 4.00

SKILLS

Languages: SQL, Python, JavaScript, Java, Scala, R, HTML/CSS

Frameworks/Tools: Oracle Data Integrator, Git, Scikit-learn, Matplotlib, Pandas, NumPy, TensorFlow, MicroStrategy

Research Interests: Artificial Intelligence, Deep Learning, Natural Language Processing (NLP), MLOps

PROFESSIONAL EXPERIENCE

Cotiviti Nepal Pvt. Ltd.   **Kathmandu, Nepal**
Software Engineer   *July 2021 - July 2023*

- Built ETL pipelines using SQL, PL/SQL, and Oracle Data Integrator (ODI) to process US healthcare PHI data.
- Collaborated with cross-functional teams (developers, QA, PMs) to deploy data solutions for 15+ US healthcare clients. Trained and mentored 10+ team members (IS and Pl teams) on ODI workflows
- Created client requirement-specific layouts to import and apply data profiler checks to maintain high-quality data and implement new clients into Cotiviti.

Kathmandu University   **Dhulikhel, Nepal**
Graduate Research Assistant   *Mar 2021 - Apr 2022*

- Involved in developing a Nepali image captioning model using CNN and Transformer architectures.
- Enhanced model performance through hyperparameter tuning and attention mechanisms and optimized using BLEU and METEOR metrics.

LIS Nepal Pvt. Ltd.   **Lalitpur, Nepal**
Business Intelligence Intern   *Jan 2020 - Apr 2020*

- Developed retail analytics solutions using SQL, ODI and OBIEE and created reports using MicroStrategy.
- Acquired knowledge of ODI data validation, ETL processes, parallel query processing, and PL/SQL for Retail Analytics.

PROJECTS

Evolution Simulator, *A demonstration of genetic algorithm*   *May 2018 - Aug 2018*

- Designed and created a simulation where bipedal creatures evolve to walk like humans using genetic algorithms.
- Featured on www.aijs.rocks.

Machine Learning Projects, *Implementation of multiple ML algorithms*   *Nov 2024 - Jan 2025*

- Implemented regression models (Linear, Decision Tree) for CO2 emission and taxi tip forecasting.
- Built classification models (KNN, SVM, Decision Tree, Logistic Regression) for fraud detection (98% recall), cancer classification (96% F1-score), and customer churn prediction.

ACHIEVEMENTS

- Published Research Paper: "Evaluating the Application of SOLID Principles in Modern AI Framework Architectures" on arXiv (2025)
- Cotiviti Professional Development Series (India/Nepal) Workshop
- IBM Machine Learning Professional Certificate (Ongoing ~90% complete)