

Manoj Adhikari

Web: manojadhikari.com.np
Github: github.com/jonamadm
Medium: @manojadhikari

Email: adkmanoz38@gmail.com
Mobile: +1 510-334-8292
LinkedIn: manoj-adk
Address: Johnson City, Tennessee

EDUCATION

- **Master of science in Computer Science : Software Engineering (GPA: 4.0)** 2023 - 2025 (Expected)
East Tennessee State University Johnson City, Tennessee
- **Bachelor of science in Computer Science and IT (GPA 3.68)** 2016 - 2020
St.Xavier's College: Tribhuvan University Maitighar, Kathmandu

SKILLS SUMMARY

- **Programming Language:** Python, R.
- **Database:** MongoDB-NoSQL, SQL, PostgreSQL.
- **Frameworks:** Django REST-Framework, Streamlit, Flask, FastAPI.
- **Tools & Packages:** Postman, Pandas, Scikit-Learn, Swagger, Apache Airflow, Scrapy, Pytorch, BeautifulSoup, Git.
- **BItools:** Power BI, Tableau, AWS QuickSight.
- **Cloud Environment & Platforms:** Linux, Windows, AWS EC2, GCP.
- **Machine Learning Skills:** Regression models, Binary & Multi-Class Classification models, Clustering (K-Means, DBSCAN, HDBSCAN), Association Mining, Dimensionality Reduction, Feature Selection, Multi-layer Perceptron & Convolutional Neural Network, Hyper-parameter Tunning.
- **Other Skills:** Microsoft Office Suite, Agile, Research.

PROFESSIONAL EXPERIENCE

- **Graduate Teaching Assistant, Department Of Computing (Part Time)** Sep 2023 - Present
East Tennessee State University Johnson City, Tennessee
 - **Instructing & Grading:** Facilitating almost 100 undergraduate students on Using Information Technology course (Topics - Digital Literacy, Cyber-Security, AI & Machine Learning etc). Instructing on computational thinking activities. Guiding students on soft skills projects. Reporting student's progress. Mentoring new graduate teaching assistants on effective teaching approaches and course resource management.
- **Product Data Analyst (Full-time)** Feb 2022 - July 2023
Renegade Insurance Jhamsikhel, Lalitpur
 - **Data Analysis (Insurance Domain) :** Aided stakeholders in strategic data-driven decision making through predictive and prescriptive analysis of quotes, coverage's, and premiums using Python and SQL . Building KPI Dashboard using Power BI. Built and streamlined Python ETL data pipelines with API endpoints for multiple carriers to operate seamless data integration with Renegade System. Develop REST API documentation using Swagger.
 - **Data Schema Modeling:** Modeled and streamlined schema of more than 15 insurance carriers heterogeneous data and optimized as per Renegade system need for full quote and quick quote service enabling high customer agent engagement. Warehoused the data.
- **Python Developer(Full-time)** Jan 2020 - Feb 2022
BitsKraft (Formerly, DigiConnect) Naxal, Kathmandu
 - **Backend Developer:** Developed data portal secure REST API's using Django REST Framework. Handled data integration through ETL pipelines, Implemented multi-factor authentication, Developed dark web exploit search for analysis of data breach and security. Developed asynchronous event schedulers, & dynamic user groups, roles & permissions features.
- **Research Scholar** 2018-2019
St. Xavier's College Maitighar, Kathmandu
 - **Crime Data Analysis:** Performed time series analysis of criminal activities, and data visualization of crime hot spots of Kathmandu Valley.

PUBLICATIONS

- **Research-Scholar/Co-author: Assessment of Criminal Activities in kathmandu Valley using KNN Classifier (Publication:Research Annals of Xavier's Nepal, ISSN:2705-456X, Issue: 2.0, 2021):**
- **Mini-thesis: Driver Drowsiness Detection through Euclidean distance measure- a behavioural approach. Undergraduate Mini-thesis work. St. Xavier's College:**

HONORS AND AWARDS

- **The Fr. Martin P. Coyne, S.J Memorial Award for Outstanding Moral Uprightness (2020):** The Fr. MARTIN P. COYNE, S.J Memorial Award for outstanding moral uprightiness at St. Xavier's College is given to a Student demonstrating the highest traits of the Xaverian Values of Moral Uprightness.
- **Fr. Locke and Stiller Research Awardee - Cycle II (2019):** LSRA, referencing, Fr. Locke and Stiller Research Awardee is an annual research award program supported & presented by St. Xavier's College presented to students for their noticeable RD work, to honor the memories of Father John K. Locke, SJ (1933-2009) & Father Ludwig F. Stiller (1928-2009). More on- LSRA

PROFESSIONAL DEVELOPMENT

- **Data Science Web App: Streamlit and Python** Coursera
Build a Data Science Web App with Streamlit and Python. [view](#)
- **Statistics Foundations 2: Probability** LinkedIn
Conditional probability, Multi-Event Analysis. [view](#)
- **Statistics Foundations: The Basic** LinkedIn
Data Distribution, Descriptive Statistics, Z-score. [view](#)
- **Students in Research** CITI Program
Completed CITI Program Course on Human Subjects Research, Students Research. [view](#)
- **Working with BigQuery.** Coursera
Fundamentals of BigQuery [view](#)
- **Microsoft Certified: Data Analyst Associate(2020-2021)** Microsoft
Exam DA-100: Analyzing Data with Microsoft Power BI. [view](#)
- **Data Science for Business** DataCamp
Basics of data science for business intelligence. [view](#)
- **Introduction to Power-BI** DataCamp
Reporting, Transforming and Learning DAX. [view](#)
- **Getting Started with Data Analytics on AWS.** Coursera
Unsupervised learning fundamentals [view](#)
- **Machine Learning with Scikit-Learn.** DataCamp
Build and tune predictive models and evaluate how well they will perform on unseen data [view](#)
- **Unsupervised Learning in python** DataCamp
Unsupervised learning fundamentals. [view](#)
- **Google Crowd source Certificate of Excellence** Google
For enriching the Nepali language during Google crowd source campaign. [view](#)

NOTABLE PERSONAL PROJECTS

- **Data Science Web App:** Insightful web app for Motor Vehicle Collisions Data-set Visualization. **Tech:** Python, streamlit
- **Phishing Awareness and simulation system:** Simulates the phishing behaviours and aware the user. Worked on diverse tasks: One pixel phishing implementation (*read blog*), Dark web leak search, Dynamic phishing template generation, User group, Roles and Permissions, Multi-factor authentication-email/phone based OTP, Time based OTP, Data dashboard and reporting.**Tech:** Python, Django REST-Framework
- **Driver Drowsiness Detection and Awareness System:** Designed project architecture, developed drowsiness detection algorithm & server-side API's, developed android app for client side. Best listed final year project. **Tech:** Python, Django REST-Framework, Android, SQLite
- **Image Classification:** Built Hand written Digit Classification & CIFAR-10 Dataset Multi-class classification CNN models, data standardization and addition to standard dataset for model better performance for unseen data **Tech:** Python, TensorFlow
- **Network Anomaly Detection :** Classifying network behaviour using KDD Dataset using Logistic Regression, KNN, Random Forest Algorithm, Multi-layer Perceptron along with PCA implementation and with hyper-parameter tuning for optimal solution. **Tech:** Python, Scikit-Learn
- **Data Streaming project:** Real time socket Engineering project with Apache Spark .

LANGUAGES

- **Languages:** English (Proficient, IELTS Overall Band:7), Nepali(Proficient)