

Ramesh Paudel

Education

- 2016–Present **PhD Candidate in Computer Science**, TENNESSEE TECH UNIVERSITY, Cookeville, TN.
Machine Learning, Data Mining, Concept Drift Detection on Graph Streams, Graph-based Anomaly Detection
- 2012–2014 **Masters in Computer Science**, TENNESSEE TECH UNIVERSITY, Cookeville, TN.
Specialized in Data Mining and Machine Learning
- 2007–2010 **Bachelor in Information Technology**, PURBANCHAL UNIVERSITY, Nepal.

Technical skills

- Language Python, R, SQL, Asp.Net, C#, Java, C++, Php, LaTeX, Javascript, HTML, CSS
- Tools Tensorflow, Keras, Scikit-learn, Numpy, Scipy, Pandas, Matplotlib, Weka, Orange, Git/GitHub, Google Analytic,
- Database MySql, Oracle, SQL Server, MongoDB
- Others Strong knowledge of Object Oriented Programming, Data Structures/Algorithms,
- Coursework Data Mining, Machine Learning, Learning Theory, Anomaly/Intrusion Detection System, Concept Drift Prediction, Adaptive Threshold Mining, Distributed/Parallel Algorithms, Internet Algorithmic

Experience

- 2016–Present **Research Assistant**, TENNESSEE TECH UNIVERSITY, Cookeville, TN.
Actively working on research related to concept drift detection, graph streams classification, graph-based Anomaly, change detection on time-series, and time-series prediction.
- Summer 2018 **Instructor**, TENNESSEE TECH UNIVERSITY, Cookeville, TN, Course taught: **Discrete Mathematics**.
- 2014–2016 **Data Analyst/Software Developer**, BESPOKE HOUSE INC., Boston.
 - Analyze web, social media and search data using SQL and Google Analytic.
 - Analyze booking and buying pattern for hotels and suggest marketing campaign.
 - Assemble, monitor and develop search engine optimization campaigns.
 - Develop real estate and boutique hotel websites using Asp.Net platform.
- 2012–2014 **Teaching Assistant**, TENNESSEE TECH UNIVERSITY, Cookeville, TN.
Assisted Courses: Data structure/algorithm, Computer Programming
- 2010–2012 **Software Developer**, MIDAS TECHNOLOGIES, Kathmandu.
 - Develop report interface, laboratory, medical record & OT module of [Hospital Management Information System](#).
 - Verify, process, and analyze the HMIS data.
 - Provide report/feedback to government agencies/hospitals on coverage and quality of health services.

Publications

- 2019 **Detecting the Onset of a Network Layer DoS Attack with a Graph-Based Approach**, R Paudel, P Harlan, W Eberle, FLAIRS-32.
- 2018 **Anomaly Detection of Elderly Patient Activities in Smart Homes using a Graph-Based Approach**, R Paudel, W Eberle, LB Holder, 2018 International Conference on Data Science, [📄](#).
Cognitive Health Prediction on the Elderly Using Sensor Data in Smart Homes, R Paudel, K Dunn, W Eberle, D Chaung, FLAIRS-31, [📄](#) [📄](#).
- 2017 **Detection of Anomalous Activity in Diabetic Patients Using Graph-Based Approach**, R Paudel, W Eberle, D Talbert, FLAIRS-30, [📄](#).

Projects

- 2019 **Detecting Spam Tweets in Trending Topics**, [📄](#).
Prediction of Job Apply Rate for User Visiting Glassdoor, [📄](#).
- 2017 **Anomaly Detection in Opioid Prescription**, [📄](#).
Analysis of Pattern Learning and Anomaly Detection on Streams, [📄](#).
- 2014 **LINKCUBE: A Tool for Anomaly Detection in Social Network using GBAD**, [📄](#).