Ramesh Paudel

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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, Rabbitmq, Jupyter
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

Experiences

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 forecasting.
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 Spam Tweets in Trending Topics using Graph-Based Approach**, *R Paudel, P Kandel, W Eberle*, Future Technology Conference - 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   **Predicting Highest Growth Customer**, ⍜.

      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**, ⍜.

Awards & Honors

2019   **Best Research Poster**, *An Approach for Concept Drift Detection in a Graph Stream using Discriminative Subgraph*, The 14th Annual Research and Creative Inquiry Day.