

Ramesh Paudel

PhD candidate at Department of Computer Science, Tennessee Tech University with research focus on concept drift detection on graph streams and graph based anomaly detection.

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EXPERIENCE

Tennessee Tech University, TN — Graduate Assistant

Aug 2016 - now

Duties & Responsibility-Part of the Knowledge Discovery Lab actively working on concept drift detection on graph streams, graph based anomaly detection and machine learning.

Bespoke House Inc, Boston — Software Developer

July 2014 - PRESENT

Development and maintenance of Asp.Net websites.
Analyze web, social media and search data and figure booking and buying pattern.
Assemble, monitor and develop search engine optimization campaigns.

Tennessee Tech University, TN — Teaching Assistant

Aug 2012 - Feb 2013

Assisted Courses- Computer Programming, Data Structures/Algorithm
Duties & Responsibility-Tutoring student in college library and helping them with the problem, conducting lab sessions, Grading labs, programming assignments, project works and exam papers

ITS, Tennessee Tech University — IT Support Staff

Aug 2012 - Feb 2013

Work as an IT support in college
Troubleshooting various IT related problem in college network & computers.

Midas Technologies, Kathmandu — Software Developer

Oct 2010 - July 2012

Involved in complete software development life cycle of Hospital Management Information System called MidasDrHoms 2.0.
Write code in Delphi (Oracle 10g backend) for different modules of a MidasDrHoms 2.0
Collect the requirement from clients and present it to the management.
Give presentation about the new features of the software to various clients.

SKILLS

Programming & Scripting

Language- Python, Java, Asp.Net, C#, C, C++, Delphi, php, HTML, Javascript, CSS, XML, SQL

Tools- scikit learn, weka, GBAD, NetworkX, NLP

Database- SQL Server 2008 & 2012, MySQL, Oracle 10g, MS Access

Operating System- Windows, Linux, Mac

Microsoft office – Proficiency in Microsoft Office - word, excel, access and powerpoint.

Others- JSON, XML, XSLT, XPATH 2.0, Google Analytics, Google Adword, Google Map

AWARDS

Graduate Research

Assistantship Tennessee Tech University for the study of Phd (Aug 2016 - Now)

Graduate Teaching

Assistantship Tennessee Tech University for the study of MSCS (Aug 2012- May 2014)

Merit Scholarship Purbanchal University for outstanding performance in undergraduate study (2007-2011)

EDUCATION

Tennessee Tech. University, Cookeville, TN

PhD Computer Science

Aug 2016 - now

Tennessee Tech. University, Cookeville, TN

MS Computer Science

Aug 2012 - May 2014

Purbanchal University, Biratnagar, Nepal

Bachelor in Information Technology Feb 2007 - July 2011

LANGUAGES

English, Nepali, Hindi,
Spanish(basic)

RESEARCH INTEREST

Concept Drift in Graph Stream, Anomaly Detection, Graph Based Anomaly Detection, Health Care Fraud, Anomaly Detection in Social Network

PUBLICATIONS

Anomaly Detection of Elderly Patient Activities in Smart Homes using a Graph-Based Approach, ICDATA, 2018

Cognitive Health Prediction on the Elderly Using Sensor Data in Smart Homes, FLAIR-31, 2018

Detection of Anomalous Activity in Diabetic Patients Using Graph-Based Approach, FLAIR-30, 2017

GRADUATE PROJECT

A Tool for Anomaly Detection in Social Network using GBAD

Developed python based tool that extract data from three different social networks (Twitter, Facebook and LinkedIn), parse the data, analyzes it, construct a graph and look for the anomalies in those graphical data. It uses a technique called GBAD to find the anomaly. GBAD is a graphical approach which finds anomaly where anomalous substructure of a graph is a part of normal substructure.