Sriniwas Pandey

Binghamton, New York, USA

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EDUCATION

Ph.D., Industrial and Systems Engineering (4/4)   **Aug 2018 - Present**
State University of New York at Binghamton, Binghamton, New York
M.Tech, Computer Science and Engineering (9.4/10)   **Jul 2013 - Jun 2015**
IIIT DM, Jabalpur India
B.Tech, Computer Science and Engineering (GPA: 70%)   **Jul 2007 - Jun 2011**
Uttarakhand Technical University, Dehradun India

RESEARCH INTERESTS

Data Analytics, Data Mining, Healthcare Systems, Machine Learning

RELEVANT COURSEWORK

Machine Learning	Data Mining	Big Data Analytics
Advanced Topics in Healthcare Systems	Complex Systems	Pattern Recognition

PROFESSIONAL EXPERIENCE

Teaching Assistant: Computational Tools and **Enterprise Systems Engineering** (Binghamton University)   **Aug 2018 – Present**

- Delivering lectures
- Evaluation and grading
- Maintaining student records
- Assisting students in their academic endeavors

Assistant Professor (Computer Science department) NPSEI Uttarakhand Technical University India   **Dec 2017 - Aug 2018**

- Preparing and delivering lectures
- Conducting exams and seminars
- In-charge of Computer Science department laboratories

Research Fellow (IIT Guwahati, India)   **Jul 2015 - Dec 2016**

- Worked in the domain of Wikipedia mining and data analytics
- Worked as Teaching Assistant for courses Data Mining & Introduction to programming

Research Intern (C-DAC) (a premier R&D organization of Govt. of India)   **Summer 2016**

- Application of High-performance computing tools like (openMP, CUDA, MPI) in data mining.
- Applied openMP constructs in Wikipedia mining.

Systems Engineer (Infosys Limited)   **Feb 2012 - Jul 2013**

- Java application development using J2EE techniques like Java-Spring and Hibernate.
- Application development for android platform for an insurance organization.

COMPUTER SKILLS

Programming	Python, C, Java, R, C++, SAS, SPSS, SQL (MySQL, Oracle)
Engineering Tools	SIMIO, MATLAB, Hadoop - MapReduce, R Studio, Weka

SIGNIFICANT ACADEMIC PROJECTS

Mortality Rate Analysis in USA   **Sep 2018- Dec 2018**
- **Objective:** Form clusters of demographic areas according to the mortality rate and various diseases.
- **Technology**: Principal Component Analysis and Clustering
- **Outcome:** Clusters of counties based on mortality rate and disease that can be used to form policies.

Mining interesting patterns in Indian Language Wikipedia's' edit histories   **Jul 2015 - Dec 2016**
- **Objective:** Find interesting patterns in Indian languages Wikipedia edition edit histories
- **Technology:** Hadoop - MapReduce with Java.
- **Outcome:** Identified some interesting editor behavior patterns for Hindi, Marathi, Telugu Wikipedia editions.

Scalable Efficient Clustering methods for Large Data   **Jul 2013 - Jun 2015**
- **Objective**: Adapt the existing algorithms for large data without changing the core functionality and methodology of the algorithms.
- **Technology:** External Memory model, C++, STXXL
- **Outcome:** Designed a clustering algorithm for large datasets

Shared Near Neighbour Clustering algorithm based on Random walk model   **Jul 2013 - Jun 2015**
- **Objective:** Design a new effective clustering algorithm with least restrictions on the shape, size, density and type of data.
- **Technology:** Python, Random walk model
- **Outcome:** Developed a new algorithm that combines concept of random walk with shared near neighbor technique

EXTRA-CURRICULAR ACTIVITIES
1) Conducted a five days' workshop on android development at NPSEI Uttarakhand, India   **Jun 2018**
2) Organized an International conference ICBDCI 2018 at NPSEI Uttarakhand India   **Jan 2018**
3) Volunteered in organizing a workshop titled NWC: National Workshop on Cryptology-2014 (under the aegis of Cryptology Research Society of India) at IIIT Jabalpur India   **Sep 2014**

PUBLICATIONS AND PRESENTATIONS
- Pandey S., Pankaj Kumar Y., Samal M., Sraban Kumar M. (2019) Nearest Neighbor-Based Clustering Algorithm for Large Data Sets. Advances in Computer Communication and Computational Sciences. Advances in Intelligent Systems and Computing, vol 760. Springer, Singapore