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Education

- **Indian Institute of Technology** — Indore, India
  Ph.D. Research Scholar; CGPA:8.63/10.0 — *July 2017 – Present*
- **Indian Institute of Information Technology and Management** — Gwalior, India
  Master of Technology in Computer Science and Engineering; CGPA: 8.47/10.0 — *Aug. 2014 – July. 2016*
- **Kumaon Engineering College** — Dwarahat (Almora), India
  Bachelor of Technology in Computer Science and Engineering; CGPA: 74.83/100 — *Aug. 2007 – July. 2011*

Experience and Projects

- **Madhav Institute of Technology & Science** — Gwalior, India
  Assistant Professor — *July 2016 - May 2017*
- **Indian Institute of Information Technology and Management** — Gwalior, India
  Research Project — *May 2016 - July 2016*
  - **Speech based access of Agricultural Commodity Prices and Weather Information in 11 Indian Languages Dialects (Automatic Speech Recognition (ASR) Consortium-Phase-II. Jointly with 12 institutes.**: The objective of the project is to implement and deploy a system that will provide Commodity prices and Weather information to the users in a convenient manner. Another objective of this project is to bring together expertise from the different organizations and enable sharing of knowledge to develop other systems that can tackle India-specific applications. This project is on-going and till now speech based system for prices of common commodities in a district whose prices are available in AgmarkNet website has been developed for six languages. Systems are being built for five more languages. We have created transcripts from the speech samples collected from farmers of 70 districts of Uttar Pradesh state in India. We also created working speech model for speech recognition using KALDI.
- **Indian Institute of Information Technology and Management** — Gwalior, India
  Master's Thesis Project — *June 2015 - May 2016*
  - **Text classification for Big Data.**: Under this project We have developed a system to classify text in to positive and negative classes according to sentiments.We have used Hadoop HDFS,Map-Reduce for this purpose.
- **Infosys Limited** — Hyderabad, India
  Senior System Engineer — *Feb. 2012 - July 2014*
  - **KRAFT and MONDELEZ Data migration to SAP database**: This project was related to data migration. We used Cransoft ETL tool to get legacy data from client and applied some rules on legacy data using SQLServer in backend according to business requirements.Then we loaded enhanced data to SAP database. our client for this project are fourth largest supplier of grocery and food items in USA. SQL server, SAP and CRANSOFT tool were used in this project.
  - **Project for Ministry of Corporate Affairs India**: My responsibilities in Ministry Of Corporate Affairs India project were to Enhance back-end services of client portal, Reverse Engineering with MaintainJ tool and Validation in Java development for uploading the e-forms.
  - **Android Application for WomenSafety**: Woman-safety is a GPS based application. In the dangerous situation user need to shake her mobile. This app sends an alert sms to 3 mobile no. of her choice with location and address of current location. It also works on locked screen. Technology and tool used for this project are as below.
    SQLite
    ocationmanager
    Phonecalls
    Smsmanager
  - **Android application for Queing Theory**: This application is useful to calculate measures used in queing theory. This android application can be used in operational management and research field.

- **Android application for child learning usnigPhonegap**: This app was created in Infosys for children to teach English with examples. We had used JQuery PhoneGap and Android technologies for this application.

Kumaon Engineering College Dwarahat, India
Bachelor's Thesis Project *June 2010 - Dec 2010*

- **DNA compression using lossless compression techniques**: The project was a successful venture of implementing compression of DNA information. We analyzed certain existing compression techniques and also studied to mark out the functionality that the target DNA string can be compressed. The layout and functionality were implemented in JAVA.

Research Interest

- Multi-label Clasification and Extreme Classification
- Non-iterative Approaches in machine learning (like Random Vector Functional Link (RVFL) and Broad Learning System)

Honours and awards

- Successfully completed online course, Machine Learning Foundations, Mathematical Foundations by National Taiwan University on Coursera in September 2019
- Successfully completed online course, Machine Learning Foundations: A Case Study Approach by University of Washington on Coursera in August 2019
- Successfully completed the online, Deep Learning Specialization by deeplearning and offered through Coursera in July 2019.
- Completed online certification course, Convolutional Neural Networks by deeplearning and offered through Coursera in July 2019.
- Completed online certification course, Sequence Models by deeplearning and offered through Coursera in June 2019.
- Completed online certification course, Structuring Machine Learning Projects by deeplearning and offered through Coursera in June 2019.
- Completed online certification course, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning and offered through Coursera in June 2019.
- Completed online certification course, Neural Networks and Deep Learning by deeplearning and offered through Coursera in June 2019.
- Completed online certification course, Machine Learning by Stanford and offered through Coursera in June 2019.
- Successfully completed the online, non-credit Specialization Mathematics course for Machine Learning by Imperial College, London and offered through Coursera in May 2019.
- Completed online certification course Mathematics for Machine Learning: PCA by Imperial College, London and offered through Coursera in May 2019.
- Completed online certification course Mathematics for Machine Learning: Multivariate Calculus by Imperial College, London and offered through Coursera in May 2019 .
- Completed online certification course Mathematics for Machine Learning: Linear Algebra by Imperial College, London and offered through Coursera in May 2019 .

- Qualified University Grants Commission of India-National Eligibility Test (UGC-NET) in two successive years 2016 and 2017.
- Ranked among top 5% students of India in All India Engineering Entrance Examination (AIEEE) 2007.
- Ranked among top 1% students of India in Graduate Aptitude Test Engineering (GATE) in 2014.
- Received Merit scholarship in B. Tech. first year by Government of Uttarakhand.
- Participated in National Children Science Congress at Cotton University, Guwahati in 2006.

Expertise

- **Programming Languages**: C, Java, SQL, R, Matlab, Python
- **Tools or Framework Expertise**: Eclipse, Netbeans, AndroidStudio, Hadoop, HDFS, C# Visual Studio, LaTeX.

Publications

- Vikas Chauhan and Aruna Tiwari, "On the Construction of Hierarchical Broad Learning Neural Network: An Alternative Way of Deep Learning," 2018 IEEE Symposium Series on Computational Intelligence (SSCI), Bangalore, India, 2018, pp. 182-188.