

Work Experience : 1.9 Years  
Research Experience : 2.0 Years

**PRATEEK RALHAN**  
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## WORK EXPERIENCE

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### Digital Solutions Engineer

Swiss Re

March 2020 – Ongoing

- Mainly indulged in text analytics, NLP and digitalization initiatives for risk engineering function in commercial P&C insurance.
- Also involved in Analytics and reporting as a part of Project Management Support for Global Risk Engineering Services at Swiss Re.

### Graduate ML Engineering Intern

Swiss Re

June 2019 – February 2020

- Worked on developing a text-mining tool for commercial insurance risk screening which is actively used by entire RES community within Swiss Re comprising of 150 risk engineers.
- Also worked on developing a PoC in the form of an end to end pipeline for automatic Segmentation of Standard carrier reports as a part of Risk Engineering for synchronized Information Extraction.

### Technical Intern

Schneider Electric

Summer 2017

- Worked on the hardware design and software schematics of Smart Uninterrupted Power Supply Systems based on IGBT (Insulated Gate Bipolar Transistor) Technology.
- Worked on designing and rendering the Electrical Layout of Data Centres and Equipment using Autodesk Revit 2017.

### Embedded Systems Intern

WebTek Labs

Winter 2016

- Mainly worked on designing a fully functional prototype of RFID based Attendance System using Advanced Virtual RISC (AVR) microcontrollers.
- Worked on embedded software development using state machines for Traffic control systems, coffee vending machines and washing machines using the IBM Rhapsody Tool.

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## PROGRAMMING LANGUAGES AND TECHNOLOGIES

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- **Programming Languages** - Python, C++, PHP(basics), Java(Basics)
- **Operating Systems** – Ubuntu 16.04 LTS, Windows
- **Database and Cloud Services** - MySQL, Microsoft SQL Server, Google Cloud Platform
- **Frameworks and tools** - Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, OpenCV, Cogito Studio
- **Others** - GitHub, Docker, Flutter, Adobe Photoshop, Adobe Premiere Pro.

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## EDUCATION

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Bangalore, India

IIIT Bangalore

August 2019 – October 2020

- Post Graduate Diploma in Machine Learning and Artificial Intelligence

CGPA: 3.31/4

Chennai, India

SRM Institute of Science and Technology

July 2015 - May 2019

- B.Tech. in Electronics and Communication Engineering.

CGPA: 9.23/10

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## PATENTS AND PUBLICATIONS

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- “KRISHAK”- An autonomous IOT System for Field Monitoring and Disease Identification Using Deep Learning. **Application No: 201941019154**
- Qualitative Content Analysis in Visual Question Answering based Datasets and Algorithms. *Int'l Journal of high performance computing and networking*  
[Published](#) ( Inderscience, IF: 0.71 )
- Analysis of Deep Convolutional Neural Networks for Image Classification. *ICASISET 2019*  
[Published](#) (Conference Proceedings.)
- Improved Framework of Group Signatures with Chameleon Hashes for Online/Offline Transactions. *Future Generation Computer Systems*  
In Review ( Elsevier, IF: 5.768 )
- A Reinforced Framework for a Blockchain based Authentic E-Governance System using Chameleon Hashes. *Journal of Soft Computing*  
In Review ( Springer, IF: 2.784 )
- An Improved Framework for QOS Enhancement in MANET using Soft Computing Models. *Journal of Wireless Networks*  
In Review ( Springer, IF: 2.405 )

## ACHIEVEMENTS

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- [Scholarship of Merit – SRM Institute of Science and Technology \(July 2015 – July 2017\)](#)

Was awarded a scholarship of *INR 92500/-* for showcasing exemplary overall performance for three consecutive years.

- [Secure and Private AI Scholarship - Facebook AI \(May 2019\)](#)

Was among the top 5000 students from all across the globe to be selected as a recipient of the Secure and Private AI scholarship provided by Facebook AI in association with Udacity.

- [Pytorch Scholarship – Facebook AI \(November 2018\)](#)

Was awarded the prestigious Pytorch scholarship given by Facebook AI in association with Udacity.

- [CBSE Board Topper \(May 2015\)](#)

Received appreciation for achieving 95.4% Merit in CBSE Class XII board examinations from Mrs. Smriti Irani, the Then Minister of HRD (Govt. of India).

- [Best Speaker – ‘Digital Signal Processing \(2016\)](#)

Was awarded the Best Speaker award for the technical talk organized by the Career Development Centre, SRM Institute of Science and Technology.

- [Swami Vivekananda Quiz – Round II Qualifier \(2014\)](#)

Was among the Top 1000 students to qualify for the second round of the All India Swami Vivekananda Quiz with the participation of more than 85000 students across India.

- [Nirmaan Enterprises – ‘Best Business Idea in Asia Pacific’ \(2013\)](#)

Was the co-founder of ‘Nirmaan Enterprises’ that was adjudged as ‘*The Best Business Idea in Asia Pacific*’ by the British Council with a prize money of **1000 USD**.

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## LANGUAGES

English, Hindi, Punjabi, German (beginner level).

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## EXTRA-CURRICULAR ACTIVITIES

- [1<sup>st</sup> Prize – KHALBALI \(Inter College Street Play Competition\)](#)

An International Sports and Cultural Festival – RIVIERA 2017 held at VIT University (Vellore), India.

- [2<sup>nd</sup> Prize – Variety Show \(Inter College Street Play Competition\)](#)

An Intercollegiate Cultural and Fine Arts Meet held at Jawaharlal Institute of Post Graduate Medical Education and Research (JIPMER), Pondicherry, India.