

Work Experience : 4 Years
Research Experience : 2 Years

PRATEEK RALHAN
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WORK EXPERIENCE

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|--|---------------------------|----------------------------------|
| Digital Solutions Engineer | Swiss Re | March 2020 – Ongoing |
| <ul style="list-style-type: none">Working on building Large Language Models and NLP based solutions for risk engineering function in commercial insurance.Engineering end to end big data analytics and reporting applications in a cross-regional and cross functional team using Palantir Foundry and Azure. | | |
| Graduate ML Engineering Intern | Swiss Re | June 2019 – February 2020 |
| <ul style="list-style-type: none">Successfully developed and deployed a text-mining tool for commercial insurance risk screening which is actively used by global risk engineering team leading to approx. increase in CMR of USD 5M due to improved cost containment.Engineered and deployed an MVP in the form of an end-to-end pipeline for automatic Segmentation of standard carrier reports as a part of global risk engineering and underwriting for synchronized Information Extraction and document classification. | | |
| Technical Intern | Schneider Electric | Summer 2017 |
| <ul style="list-style-type: none">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 large-scale data centres and equipment using Autodesk Revit 2017. | | |
| Embedded Systems Intern | WebTek Labs | Winter 2016 |
| <ul style="list-style-type: none">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. | | |

TECHNICAL SKILLS

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| <ul style="list-style-type: none">Programming Languages – PySpark, Python, C++, PHP (basics), Java(Basics)Operating Systems – Ubuntu 16.04 LTS, WindowsDatabase and Cloud Services - MySQL, Microsoft SQL Server, Palantir Foundry, Microsoft Azure, Google Cloud Platform | <ul style="list-style-type: none">Frameworks and tools - Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, OpenCV, Cogito StudioOthers - GitHub, Docker, Flutter, Adobe Photoshop, Adobe Premiere Pro. |
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EDUCATION

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| Bangalore, India | BITS Pilani | April 2024 – ongoing |
| <ul style="list-style-type: none">M. Tech. in Machine Learning and Artificial Intelligence | | CGPA: - /4 |
| Bangalore, India | IIIT Bangalore | August 2019 – October 2020 |
| <ul style="list-style-type: none">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 |
| <ul style="list-style-type: none">B.Tech. in Electronics and Communication Engineering. | | CGPA: 9.23/10 |

PATENTS AND PUBLICATIONS

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| <ul style="list-style-type: none">“KRISHAK”- An autonomous IOT System for Field Monitoring and Disease Identification Using Deep Learning. | Application No: 201941019154 |
| <ul style="list-style-type: none">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) |
| <ul style="list-style-type: none">Analysis of Deep Convolutional Neural Networks for Image Classification. | ICASISSET 2019
Published (Conference Proceedings.) |
| <ul style="list-style-type: none">Improvised Framework of Group Signatures with Chameleon Hashes for Online/Offline Transactions | Future Generation Computer Systems
In Review (Elsevier, IF: 5.768) |
| <ul style="list-style-type: none">A Reinforced Framework for a Blockchain based Authentic E-Governance System using Chameleon Hashes. | Journal of Soft Computing
In Review (Springer, IF: 2.784) |

ACHIEVEMENTS

- [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**.

LANGUAGES

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

EXTRA-CURRICULAR ACTIVITIES

- [1st Prize – KHALBALI \(Inter College Street Play Competition\)](#)
An International Sports and Cultural Festival – RIVIERA 2017 held at VIT University (Vellore), India.
- [2nd 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.