

# ROHIT K BHARADWAJ

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## OBJECTIVE

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Interested in building ML/AI based software solutions having the potential to impact millions of end-users.

## EDUCATION

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**Bachelor of Engineering in Computer Science**, BITS Pilani, Pilani Campus 2018 - 2022

Relevant Coursework: Foundation of Data Science, Information Retrieval, Machine Learning and Computer Programming.

**Master of Science in Mathematics**, BITS Pilani, Pilani Campus 2017 - 2022

Relevant Coursework: Probability and Statistics, Applied Statistical Methods, Linear Algebra, Applied Stochastic Processes, and Calculus.

## EXPERIENCE

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**Software Development Engineer Intern** Jan 2022 - July 2022  
Urban Company *Gurugram, India*

- Working with the Customer Repeat Team at Urban Company as a SDE Intern for a period of 6 months.  
Tech Stack: Typescript, NodeJS, MongoDB, Git, etc.

**Mitacs Globalink Research Intern** May 2021 - Aug 2021  
York University *Toronto, Canada*

- The project was on “Topic modeling for categorization of online documents”. Topic Modelling algorithms like LDA and Lda2Vec were implemented and applied on a custom dataset consisting of over 90,000 scientific abstracts and 30,000 scientific full-text documents. Extensive visualizations of the results and comparative analysis was also performed.

**Application Developer** May 2020 - July 2020  
Indian Institute of Technology Mandi *Himachal Pradesh, India*

- Developed an [Android application](#) to ease the enforcement of home quarantine by the government authorities. The application allowed the authorities to continuously authenticate the user through facial recognition and geo-fencing technologies.

**Research Intern** May 2019 - Jul 2019  
CSIR - Institute of Genomics and Integrative Biology *New Delhi, India*

- Worked on developing visualization and training GloVe embedding model on scientific abstract data. Semantically related entities in PubMed abstracts on the topic of “Vitiligo” were visualized. Project on [Github](#).

## LEADERSHIP

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- Application Development Team Lead - Students Union Technical Team (SUTT), BITS Pilani**: I was the head of app-development team at SUTT, from May 2019 to June 2020. I contributed in leadership as well as the development of the official Student Union App. It can be downloaded from both [Playstore](#) and [Appstore](#).

## PUBLICATIONS

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1) **Bharadwaj, R.**, Jaswal, G., Nigam, A., & Tiwari, K. (2022). Mobile based human identification using forehead creases: application and assessment under COVID-19 masked face scenarios. 2022 IEEE Winter Conference on Applications of Computer Vision (WACV), pp. 3693-3701.

- 2) **Bharadwaj, R.**, Bhatia, A., Chhibbar, L. D., Tiwari, K., & Agrawal, A. (2022). Is this url safe: detection of malicious urls using global vector for word representation. 2022 International Conference on Information Networking (ICOIN), pp. 486-491. <https://doi.org/10.1109/ICOIN53446.2022.9687204>
- 3) Arora, G., **Bharadwaj, R. K.**, & Tiwari, K. (2021). Deepteeth: A teeth-photo based human authentication system for mobile and hand-held devices. ArXiv:2107.13217 [Cs]. <http://arxiv.org/abs/2107.13217>
- 4) Jaswal, G., **Bharadwaj, R.**, Tiwari, K., Thapar, D., Goyal, P., & Nigam, A. (2021). AI-biometric-driven smartphone app for strict Post-COVID Home Quarantine Management. IEEE Consumer Electronics Magazine, 10(3), 49–55. <https://doi.org/10.1109/mce.2020.3039035>

## AWARDS AND RECOGNITION

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- **Singapore-India Hackathon 2019:** [Our Team](#) built software solution to track disease progression. We came in [top-8 teams](#) and were awarded S\$2000 (Singapore Dollars).
- **Winners of Smart India Hackathon 2019 (SIH 2019) Software Edition:** Our team “[CicadaCrackers](#)”, under my leadership, won the grand-finale round and were awarded Rs 1,00,000. We built an Android application and Web dashboard to alert users during Tsunami and to effectively assist authorities in rescue operations.