

SAURABH MATHUR

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EDUCATION

Indiana University, Bloomington 2020

Master of Science, Computer Science

- Relevant Coursework: Elements of Artificial Intelligence · Machine Learning · Advanced Operating Systems

VIT, Vellore 2018

Bachelor of Technology, Information Technology

- Cumulative GPA: 9.12 / 10.0
- Relevant Coursework: Artificial Intelligence · Data Warehousing and Data Mining · Digital Image Processing · Operating Systems

WORK EXPERIENCE

Microsoft, Bangalore May, 2016 – July, 2016

Intern

- Developed a hybrid algorithm for recommending movies with performance comparable to top 20 of the Netflix Prize participants.

Web Team, Gravitas, VIT April, 2016 – September, 2016

Developer

- Developed web-portals for registration and analytics for about 30,000 users at VIT's annual technical festival making it fully paperless.

VITacademics, CollegeCode February, 2017 – June, 2018

Developer

- Cut the response time by 50% for the backend server of an app that helps students keep track of their academics.

TEACHING EXPERIENCE

IEEE Computer Society, VIT Chapter September, 2016 – December, 2017

Intern

- Taught workshops on Python programming, on the C++ Standard Template Library and on developing games for the web.
- Mentored first and second year students on web-development.

PROJECTS

Automated Image Captioning System March, 2018

- Developed a deep learning system to improve accessibility of images by leveraging Google's Inception-V3 for transfer learning.

Clickbait Detector October, 2017

- Developed a chrome extension powered by a deep neural network that tags clickbait headlines on social media with 90% accuracy.

PUBLICATIONS

- Saurabh Mathur and Sumangali K. *Melanoma Detection using Capsule Networks* In proceedings of ICNTET - 18'. IEEE.
- Mathur S, Lopez D. *A scaled-down neural conversational model for chatbots*. Concurrency and Computation: Practice and Experience 2018;e4761. <https://doi.org/10.1002/cpe.4761>
- P. Karthik, M. Saurabh, and U. Chandrasekhar. *Classification of text documents using association rule mining with critical relative support based pruning*. In proceedings of ICACCI-16'. IEEE.
- U. Chandrasekhar and Saurabh Mathur. *Decision making using fuzzy soft set inference system*. In proceedings of ISBCC - 16'. Springer.

COMPUTER PROGRAMMING SKILLS

- Advanced: Python · JavaScript · Node.js · MongoDB · R
- Intermediate: Java · C# · TypeScript · C · C++ · MATLAB · Bash · SQL · L^AT_EX