Manav Mahajan ⚭ manav.space

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EDUCATION

EURECOM
Msc in Computer Science
(Digital Security)
2020* | France

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
BTech in Computer Science and Engineering
2017 | India

SKILLS

PROGRAMMING
Programming and Scripting
Python • C • C++ • Java • Shell PHP
Frameworks
TensorFlow • Spark
Other
Android • Assembly • LaTeX • GNS3 MySQL

RELEVANT COURSEWORK
•System and Network Security •Security and privacy for Big Data • Mobile Systems Security • Wireless Security • Cloud Computing • Deep Learning • Machine Learning • Advanced Computer Networks • Software Development

AWARDS
• Granted the Laboratory of Excellence Scholarship for Masters
• Won OSMPalooza, an Online Social Media Hackathon by IIIT-Delhi
•Runner-up in Enigma, Online Cryptographic Hunt by IIT-Indore
• Qualified for Google CodeJam-2015
• Ranked First in IEEEXtreme 7.0
• Gold Medalist in IAIS by UNSW, Australia in Science, Digital Technologies & Mathematics for 4 consecutive years

OTHER ACTIVITIES
• Volunteered with NGOs:
- MATES Eco Club in events like Plantation Drive
- BloodConnect (part of technical team)
• Organised a workshop, 'How to Solve a Rubik's Cube'
• Started an educational YouTube channel as a part of Google Developers Group

EXPERIENCE

IIIT-DELHI | Research Associate
Precog | Sept - Nov 2017 | India
Worked under the supervision of **Prof. Ponnurangam Kumaraguru** with the privacy and security research group. Collected and analysed online social media data to understand behaviour patterns of different stakeholders.

NANYANG TECHNOLOGICAL UNIVERSITY | Research Assistant
SenticNet | Jan – Mar 2017 | Singapore
Amongst 5 out of 250 applicants chosen. Worked on NLP techniques and used deep learning to train models for Aspect Extraction and NER Tagging. Enriched the concepts in SenticNet.(Supervisors - **Prof. Erik Cambria** & **Prof. Soujanya Poria**)

UNIVERSITY OF WARWICK | Summer Research Intern
WMG Cyber Security Center | June 2016 – Aug 2016 | United Kingdom
Worked with the research team at Cyber Security Centre to propose and devise secured methods for behaviour based authentication using mobile devices. (Supervisor - **Prof. Carsten Maple**)

DEFENCE RESEARCH & DEVELOPMENT ORGANISATION | Intern
SSPL Delhi | June 2015 – August 2015 | India
Worked with the Information Technology Group at DRDO for designing and implementing a network for the lab.

KEY PROJECTS

Machine Learning vs Security | Eurecom
Devised a tool to gather literature effectively to explore usage of Machine Learning Techniques in Security. Conducted a data driven survey in this domain. (Supervisor - **Prof. Marc Dacier**)

Understanding the security implications of the 'appification' trend in the cyber-physical context | Eurecom
Reviewed the current State-of-the-art of CPSs and their security issues in general. Analysed the present situation of Android Applications for the Industrial Controlled Systems and reversed a small sample of android applications for security issues. (Supervisor - **Prof. Davide Balzarotti**)

Multimodal Dataset Annotation | LTI, Carnegie Mellon University
Annotated YouTube Videos for Multimodal Corpus of Sentiment Intensity and Subjectivity.

Bio-Signals Emotion Detection | Bachelor's Major Project Thesis
Investigated the use of Bio-signals for human emotion detection. Derived features from different brainwaves of the ECG signal and used them to train the system using supervised learning methods.

Hindi Sentiment Analysis | Bachelor's Minor Project Thesis
Latest tweets in Hindi language were collected for a product for sentiment extraction, which were then aggregated to give an overall opinion of the product. Project was awarded for the 'Best Research Poster' in college.

REFERENCES
Available upon request