ACADEMIC ACHIEVEMENTS	Pursuing <b>Honors</b> in Computer Science and Engineering
Secured All India Rank 304 in IIT JEE Mains 2018	2018
Secured All India Rank 665 in IIT JEE Advanced 2018	2018
Awarded the esteemed Kishore Vaigyanik Protsahan Yoj	jana (KVPY) fellowship (twice) 2016 & 2017
• Recipient of the prestigious National Talent Search Exam	mination (NTSE) scholarship 2016
INTERNSHIPS	
Bing Ads classification using Multimodal Learning   Micr	rosoft India R&D Data Science Intern   Summer 2021
• Worked with vision-language models, looking for gains	<u> </u>
• Experimented with recent multimodal models, Oscar a	
regions of interest from images which are fed, along w	
Compared with a baseline involving a modified XLM-R	<u> </u>
Analysis of Vector Addition Systems   Prof. Alain Finkel, El	
<ul> <li>Worked on the non-trivial problem of devising an algor of reachability sets of Vector Addition Systems, elucidar</li> </ul>	
KEY PROJECTS	
Self-supervised Multimodal Learning   Prof. Preethi Jyothi	,
• Exploring novel <b>intermediate pretraining</b> strategies to	
• Experimenting with cross-modal contrastive losses, ext	
Microarchitectural Enhancements   Prof. Mythili Vutukur	
Augmenting an existing microarchitecture simulator, Q	· · · · · · · · · · · · · · · · · · ·
• Exploring microarchitectural optimizations to improve	latency under the regime of high speed I/O
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Foreshadow (L1TF) Attack   Computer Architecture	Course Project, Autumn 2020
• Explored and imitated Foreshadow, a Meltdown-style sp	Course Project, Autumn 2020 peculative execution attack on Intel's processors
<ul> <li>Explored and imitated Foreshadow, a Meltdown-style s     which allows attackers to steal sensitive information fr</li> </ul>	Course Project, Autumn 2020 peculative execution attack on Intel's processors rom personal computers or third-party clouds
<ul> <li>Explored and imitated Foreshadow, a Meltdown-style symbol which allows attackers to steal sensitive information frequency.</li> <li>Presented a proof-of-concept by simulating SGX's abort</li> </ul>	Course Project, Autumn 2020 peculative execution attack on Intel's processors rom personal computers or third-party clouds a page semantics to showcase an attack
<ul> <li>Explored and imitated Foreshadow, a Meltdown-style symbich allows attackers to steal sensitive information frequency.</li> <li>Presented a proof-of-concept by simulating SGX's abort Hospital Management System   Database and Information</li> </ul>	Course Project, Autumn 2020  peculative execution attack on Intel's processors  rom personal computers or third-party clouds  a page semantics to showcase an attack  a Systems  Course Project, Spring 2021
<ul> <li>Explored and imitated Foreshadow, a Meltdown-style symbich allows attackers to steal sensitive information frequency.</li> <li>Presented a proof-of-concept by simulating SGX's abort Hospital Management System   Database and Information</li> </ul>	Course Project, Autumn 2020 peculative execution attack on Intel's processors rom personal computers or third-party clouds repage semantics to showcase an attack of Systems  Course Project, Spring 2021 tem as a Flask web app providing functionalities such as
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<ul> <li>Explored and imitated Foreshadow, a Meltdown-style symbich allows attackers to steal sensitive information from the Presented a proof-of-concept by simulating SGX's abort Hospital Management System   Database and Information</li> <li>Developed a patient-centric hospital management system book/cancel appointments and tests, buy medicines, paradded secure access to patients' details and history as Image Segmentation using R2U-Net   Medical Image Com</li> </ul>	Peculative execution attack on Intel's processors rom personal computers or third-party clouds a page semantics to showcase an attack on Systems  Course Project, Spring 2021 tem as a Flask web app providing functionalities such as any bills, add prescription, etc.  Well as an interface to view disease analytics  Pourse Project, Spring 2020
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• Represented IIT Bombay at the 34th Inter IIT Aquatics Meet, held at IIT Guwahati

• Represented Mumbai Region at KVS National Swim Meets for 3 consecutive years

• Swam continuously for 12 hours covering 17 kms at Swimathon, IITB's swim marathon

• Bagged trophies in **mridangam** competitions at various fine arts societies in Mumbai

2018

2019

2016-2018

2013-2015