AJINKYA K. NENE

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EDUCATION

Massachusetts Institute of Technology (MIT) — Cambridge, MA
Master of Engineering – Systems Concentration; GPA: 5.0/5.0 — *September 2019 – May 2020*
- **Thesis**: Deep Learning Approaches to Universal and Practical Steganalysis
- **Selected Coursework:** Network and Computer Security; Computer Systems; Operating Systems; Machine Learning

Bachelor of Science in Computer Science; GPA: 5.0/5.0 — *September 2016 – May 2020*
- **Selected Coursework**: Performance Engineering, Software Construction, Design and Analysis of Algorithms; Financial Engineering

WORK EXPERIENCE

Newfront Insurance — San Francisco, CA
Software Engineering Intern — *May 2019 – September 2019*
- **Analytics Infrastructure:** Improved analytics reporting infrastructure to increase developer velocity and enable transparency
- **Data Modeling:** Designed and launched a data remodel for insurance policies to enable new business use cases

Eian — Stanford, CA
Contract Software Engineer — *December 2018 – March 2019*
- **Core Infrastructure:** Developed core blockchain technologies in Rust/C++ for ledger and transaction modules
- **Application Development:** Created several demo applications to showcase potential of the Eian cryptographic network

McKinsey and Company — New York City, NY
Summer Business Analyst — *June 2018 – August 2018*
- **Digital Transformation:** Worked with a private equity client to launch a digital transformation in their hiring processes
- **Insurance Strategy:** Designed new underwriting workflows that leveraged modern machine learning capabilities to improve efficiency

Investment Technology Group — New York City, NY
Machine Learning Intern — *January 2018 – February 2018*
- **Execution Efficiency:** Developed machine learning tools to improve trade execution efficiency for the ActiveAI product line
- **Experimental Trading Algorithms:** Developed proof-of-concept reinforcement learning platform for automatic trade execution

Microsoft — Bellevue, WA
Software Engineering Intern — *June 2017 – August 2017*
- **Testing Infrastructure:** Designed testing infrastructure that enabled automated QA testing for Android/iOS applications
- **Systems Integration:** Integrated applications into the Xamarin platform to enable cross-architecture code compatibility.

Square Peg Capital — Cambridge, MA
Winter Analyst Extern — *January 2017 – February 2017*
- **Company Discovery:** Discovered and analyzed several machine learning startups as part of due diligence
- **Market Analysis:** Created extensive reports on current market trends in niche consumer product spaces

ACTIVITIES AND LEADERSHIP

Eta Kappa Nu Honor Society — Cambridge, MA
President — *September 2019 – May 2020*
- **Overview:** National honor society for Electrical Engineering and Computer Science (top 10% of MIT are invited to join)
- **Tutoring Service Revamp:** Successfully lobbied MIT administration to increase student-tutoring pay and increased the number of tutors

MIT Sloan Business Club — Cambridge, MA
Board Education Program Director — *September 2016 – May 2020*
- **Overview:** MIT's premier business organization with initiatives in finance, consulting, and entrepreneurship
- **Education Program:** Organized and developed the education program that introduces new members to business fundamentals

MIT Data to AI Laboratory — Cambridge, MA
Research Assistant — *January 2019 – May 2020*
- **Overview:** The lab focuses on building large scale AI systems as well as developing fundamental AI algorithms
- **AI for Security:** Researched how AI systems can be deployed in security applications to prevent cybersecurity threats

MIT Initiative on the Digital Economy — Cambridge, MA
Research Assistant — *January – May 2017*
- **Overview:** The initiative focuses on how people and businesses will work, interact, and prosper in an era of digital transformation
- **Technological Factors for Stock Price Prediction:** Researched how API usage impacts company growth and stock price

PROJECTS

- **StegBench (github.com/DAI-Lab/StegBench):** Designed python library to enable robust and seamless evaluation of steganalysis algorithms
- **Cryptographically Secure Dark Pools:** Designed and implemented a secure dark pool for anonymous transactions (6.857 Final Project)
- **Machine Learning to Improve Automobile Vehicle Design:** Applied machine learning to automobile purchase data to identify market segmentation and discover successful vehicle designs (6.867 Final Project)

SKILLS AND INTEREST

- **Programming**: Proficiency in Java, Python, R, Rust, C++, C, C#, HTML, CSS, JavaScript, PHP, SQL, Scheme
- **Languages**: Proficiency in English, Hindi and Marathi. Working Proficiency in Spanish
- **Interests:** Tennis, Classic Novels, Weightlifting, Blogs, Competitive Programming, Running, Podcasts