Anmol Mansingh

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EDUCATION

University of Michigan - *Ann Arbor, MI* *April 2024*
M.S. in Electrical Engineering and Computer Science - **GPA: 3.53/4**
Specializing in Signal Processing and Machine Learning
Relevant coursework: Machine Learning, Human-AI Interaction and Systems, Matrix Methods for Machine Learning

Indian Institute of Technology (IIT) - *Indore, India* *May 2019*
Bachelor of Technology in Electrical Engineering - **GPA: 8.88/10**

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages:	Python, C, C++, Java
Frameworks/Packages:	PyTorch, TensorFlow, React, Next.js, Spring Boot, ggplot2
Databases:	Oracle, MySQL, Firebase
DevOps Tools:	Docker, Jenkins, OpenShift, Apache Kafka
Certifications:	Neural Networks and Deep Learning, Introduction to User Experience Design

PROJECT EXPERIENCE

Research Assistant, Computational HCI Lab - *Ann Arbor, MI* *Jan 2023 - Present*
Advised by Prof. Nikola Banovic, University of Michigan
- Working on a novel tool to explain the decisions of a stable diffusion model (Explainable AI)

Novel Text Entry Methods For VR Headsets, University of Michigan - *Ann Arbor, MI* *September 2022 - Dec 2022*
- Designed and developed a novel camera-based text entry prototype following contextual user interviews on controller-based text entry methods
- Performed statistical analysis (NHST) with paired-sample Wilcoxon tests and presented a poster detailing the findings

Digital Taylor-Fourier Transform for Detecting Sleep Apnea, IIT - *Indore, India* *July 2018 - November 2018*
- Devised a less computationally-expensive method for detection of obstructive sleep apnea (OSA) from single-lead ECG Signals using the digital Taylor-Fourier transform
- Achieved maximum classification accuracy of 92.41% with the support vector machine classifier

Image Encryption using VSS and FrFT, IIT - *Indore, India* *Jan 2018 - Mar 2018*
- Implemented a proposed data hiding method combining the Visual Secret Sharing scheme for image encryption
- Added additional layer of encryption with the joint fractional Fourier transform (frFT) correlator

WORK EXPERIENCE

Software Engineer, Barclays - *Pune, India* *July 2019 - May 2022*
- Developed high-performance customer-facing engineering systems with cross-team collaborations, that served ~10 million customers monthly.

Payment Platform Modernization:
- Re-architected and migrated legacy monolithic payment platform to microservices deployed to production on Openshift applying 12-factor app, CI/CD tools and Agile methodologies
- Maintained data pipelines and designed schemas with new requirements using Oracle DB scripts and Apache Kafka, handling up to ~400k customers' payments daily
- Automated SLA breach checks using Spring Boot, Spring Batch, and Tivoli Workload Scheduler to reduce manual errors, reducing processing time associated with payment settlements by 40%

Manage My Relationship (MMR):
- Created digital experiences for 4 card services on the customer website.
- Integrated changes in JavaScript and Adobe analytics to record user behavior for a high-traffic electronic consent flow, tracking ~15k unique users daily

Recognition:
- Identified among a cohort of 47 colleagues by Rise India (FinTech innovation arm) for their graduate engagement program

Data Science Intern, Megasoft Limited - *Hyderabad, India* *June - July 2017*
- Performed exploratory data analysis on ~3k subscribers' data following CRISP-DM guidelines
- Identified decision tree as the supervised learning model after comparison based on Cohen's kappa values, predicting customer churn with an AUC-ROC score of 0.88