HRISHIRAJ MANDAL

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EDUCATION

National University of Singapore (NUS) **August 2023 - May 2027**

Bachelor's, Computer Science *GPA: 4.5*

- Languages: Python, Java, JavaScript, Typescript, Solidity, C, C++
- Core Modules: Functional, Object-Oriented Programming, Discrete Structures, Algorithms and Data Structures, Information Security, Computer Networking

PROFESSIONAL EXPERIENCE

The Agency for Science, Technology and Research **Singapore**

AI Research Intern *January 2025 - July 2025*

- ARIA awardee - Demand Forecasting Frameworks for Fast Moving Consumer Goods (FMCG)
- Implement demand forecasting techniques using Machine Learning and Deep Learning models with ensemble techniques using Nixtla framework
- Implement internal package for Explainable AI on aforementioned demand forecasting model using SHAP.
- Link to testimonial: https://www.hrishiraj.site/assets/astar_testimonial%20and%20cert-BZDhLwBy.pdf

National University of Singapore (NUS) **Singapore**

Teaching Assistant *May 2025 - June 2025*

- Manage students in their independent software development projects and mentored two of fourteen teams to top 5% of cohort.

Smartkarma **Singapore**

Data Analyst Intern *February 2023 - July 2023*

- Usage of the Bloomberg terminal and open-source BLPAPI API package to streamline data retrieval using Python programming language
- Developed and maintained a data dashboard for the UX team, utilizing PostgreSQL to query the company database and Excel to visualize data using charts
- Recommended website tracking strategies to the product team, utilizing the data collection tool Google Analytics 4 to gather valuable insights
- Optimized the data dashboard for the research team, using PostgreSQL and Google Looker Studio to enhance data visualization and streamline client onboarding
- Link to testimonial: https://www.hrishiraj.site/assets/SK-general-2xJmd_RW.pdf

PROJECTS & OUTSIDE EXPERIENCE

Oma **Singapore**

Backend, Quality Assurance, DevOps lead *May 2024 - August 2024*

- Native recommendation app that suggests dining places using AI to learn your preference
- Recommendation algorithm built using PyTorch
- Adapted MERN stack using NEXT.JS and TRPC on Turborepo
- Playwright testing framework for unit and integration test in managing Quality Assurance
- Native application and ML model hosted on Microsoft Azure
- *Link to project*

BARE **Singapore**

Team Lead *November 2023 - December 2023*

- Winning submission for Ripple, NUS Fintech Summit 2024 Hackathon
- dApp that connects landlords and tenants through contracts on the Ethereum blockchain
- Solidity (Contracts), Python Brownie framework (Contract Automation), React.js (Backend, Frotend)
- *Link to project*

AWARDS

- Ripple X NUS Fintech Summit Hackathon - First Place Winner
- Nels Radley Freits Smartkarma Fellowship - Awardee

SKILLS

Skills: Python, Java, JavaScript, TypeScript, Solidity, C#, Pytorch, Next.js, Prisma, MongoDB, Postgres, Excel/Numbers/Sheets, Zapier, SQL, Playwright, Microsoft Azure, Blockchain, React.js, Data Structures & Algorithms, Computer Networking, Data Analysis, Machine Learning, Quality Assurance (QA), Development Operations (DevOps), Market Research

Languages: Bengali, English