

# Neel Ketan Modha

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## EDUCATION

<b>Singapore Management University – School of Computing and Information Systems (SCIS)</b> <i>Master of IT in Business (Artificial Intelligence Track), GPA 3.93/4.00 – Part-time, est. completion by Jun-2024</i>	<b>Jan 2023 – Present</b>
<b>Singapore Management University – Lee Kong Chian School of Business (LKCSB)</b> <i>Bachelor of Business Management (Quantitative Finance and Technology for Business), GPA 3.90/4.00</i>	<b>Aug 2017 – Dec 2021</b>
• Recipient of the Kwek Hong Png LKSCB Valedictorian award and the Global Impact Scholarship award (top 2% of cohort).	

## PROFESSIONAL EXPERIENCE

<b>Amazon Web Services (AWS)</b> <i>Senior Data Analyst – Asia Pacific &amp; Japan (APJ) Sales Cycle Acceleration</i>	<b>Jun 2021 – Present</b>
<ul style="list-style-type: none"><li>Built the team's nascent portfolio of data products as its first analytics hire, leading to a 95% reduction in time spent on monthly reporting. Maintained 6 Tableau Dashboards and a pipeline for sales teams to self-serve their data needs via automated data dumps. Products have garnered 20K+ views and 1K+ unique users across APJ till date.</li><li>Led a cross-functional initiative with Finance to develop a forecasting model (LSTM and XGBoost ensemble) which calculates the potential revenue impact of customers' cost optimization activities. Achieved an 88% accuracy, with model outputs being used to inform sales quotas, revenue forecasts, and plan proactive cost optimization/revenue-recovery engagements.</li><li>Co-organized ASEAN's first early careers program for undergraduates, with an initial cohort of 100 students enrolled in an 8-week long curriculum introducing careers at AWS. I owned the end-to-end development and execution of a case competition and the technical game-day. Received an overall CSAT of 4.8/5, with the program greenlit to be run annually.</li></ul>	
<b>Amazon Web Services (AWS)</b> <i>Data Analyst Intern - Cloud Intelligence &amp; Insights</i>	<b>Jan – Jun 2020</b>
<ul style="list-style-type: none"><li>Conducted quantitative and qualitative comparisons of cloud computing services (Compute, Storage, Databases) on AWS vs. other cloud providers, highlighting key AWS differentiators, across 27 deal cycles valued at US\$147M.</li><li>Developed and deployed a competitive price comparison tool for Compute and Storage services, saving the team 80% of the time taken to do the same comparison manually on Excel.</li><li>Received an outstanding internship rating and was offered a full-time position after I graduated from college.</li></ul>	

## LEADERSHIP & COMMUNITY SERVICE

<b>Bridges for Enterprise</b> <i>Technical Advisory (TA) Director and Project Lead</i>	<b>Aug 2021 – Dec 2022</b>
<ul style="list-style-type: none"><li>Scoped and led the delivery of 4 technical projects for global social enterprises (SEs) by recruiting, training and empowering project leaders and consultants. 4x more projects delivered and 2x more TA consultants recruited in 2022 vs. 2021.</li><li>Engagement highlights: (i) Mobile application modernization and feature development for an Emirati SE's mobile application (ii) Data strategy, sensor data-streaming, and database implementation for a Nigerian SE (iii) Modernizing Excel-based tooling into a web application for a Rwandan SE.</li></ul>	
<b>SMU Business Intelligence and Analytics</b> <i>Talent &amp; Growth Director</i>	<b>Jan – Dec 2020</b>
<ul style="list-style-type: none"><li>Conducted workshops on (i) Natural Language Processing, (ii) Computer Vision and (iii) Machine Learning Deployment for &gt;50 peers within the club, achieving an average workshop rating of 4.5/5.</li><li>Organized ~10 outreach events, networking nights, coding challenges and data analytics competitions across the year, increasing overall event participation by 50% YoY.</li></ul>	

## RESEARCH

<i>Yu C., Hillier D., Modha N., Liu X. Y., PACE: Prototypical Adaptive Contrastive Embeddings. (CS701 Deep Learning and Vision course project, unpublished). Advised by <a href="#">Dr. Sun Qianru</a>. <a href="#">[Code]</a> <a href="#">[PDF]</a></i>	<b>Aug – Nov 2023</b>
• 2-staged adaptive learning with contrastive pre-training and k-means memory storage, for incremental learning and fine-grained image classification on a 100-class Bird dataset. Model placed top of the class leaderboard for its performance	

## SKILLS, PROJECTS & COURSEWORK

- Skills:** Python (TF, PyTorch, sb3), Flutter, Django, Kafka, Java (Spring), JavaScript (Node, React), SQL, AWS, Tableau, Figma.
- Research Interests:** MLOps (Engineering, Automation, Deployment), Human-AI Interaction, Reinforcement Learning
- Technical Projects (select):** SageMaker Deployment of a Text/Image e-commerce product classifier [\[Code\]](#) [\[PDF\]](#) | Monte Carlo and TD-Lambda Blackjack Agent [\[Code\]](#) | Predicting Singapore's public housing (HDB) prices [\[Code\]](#) [\[PDF\]](#)
- Coursework (select):** Applied Machine Learning | Object Oriented Programming (*Industry-attached web development for a construction SME*) [\[Code\]](#) [\[PDF\]](#) | Machine Learning Engineering | Deep Learning and Vision | Introduction to RL
- Hobbies:** Board Games, PC Building, Outer Space, Watersports (Canoeing and Dragon boating).