

## SKAND VIJAY

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### EDUCATION

**Carnegie Mellon University,** August 2024 - December 2025  
Masters, Management Information Systems, **GPA: 3.85/4.0** Pittsburgh, USA

**Coursework:** Artificial Intelligence - Deep Learning, Product Management Essentials, Data Science for Product Managers, Machine Learning for Problem Solving, Generative AI Labs, Time Series Forecasting, Decision Making under Uncertainty

**Activities and Societies:** Vice President, Analytics Club, Heinz

**Vellore Institute of Technology,** July 2018 - May 2022  
Bachelor of Technology in Electronics and Communication Engineering, **GPA: 3.96/4.0** Vellore, India

**Coursework:** Statistics for Engineers, Probability Theory and Random Processes

### PROFESSIONAL EXPERIENCE

**Gap Inc,** June 2022 - July 2024  
Software Engineer Hyderabad, India

- **Applied agile methodologies** to lead the development of new features for the internal Tax Code assignment application, managing the product backlog, defining user stories in JIRA, and reducing feature delivery time by 19%
- **Analyzed large-scale datasets** through SQL-based Oracle reports, leveraging data management techniques to extract actionable insights that improved reporting accuracy by 12% and guided executive decision-making
- Facilitated **15+ cross-functional meetings** to communicate product requirements for the microservices based Tax Code application, reducing requirement misinterpretation by 22% and accelerating development timelines by 14%
- **Developed Excel-based** solutions using VLOOKUP and pivot tables to resolve yearly expense discrepancies, ensuring 100% accuracy in financial reconciliations and streamlining error detection by reducing resolution time by 35%
- **Collaborated with Product Managers** to align the product vision for Oracle system upgrades with business objectives, reducing scope changes by 17% and ensuring alignment with the company's information technology strategy

### PROJECTS

CMU, School of Computer Science – Intro to Deep Learning (PhD Level) | United States October 2024 – December 2024

#### Sketch AI - Convert Sketches to Professional Product Images

- Designed and implemented a multi-stage AI pipeline to convert hand-drawn sketches into high-resolution product images
- Fine-tuned BLIP for accurate image-to-text captioning and enhanced text-to-image generation using Llama-3.1-8B, BART Large-CNN, and Stable Diffusion XL, achieving 85% approval for high-resolution, e-commerce-ready visuals
- Deployed the solution using Google Cloud Engine with Flask endpoints, enabling real-time image generation

Extern | Remote, United States September 2024 - November 2024

#### Market Research Thesis for HP Tech Ventures

- Led a market research project analyzing emerging trends and customer segments for HP Tech Ventures, identifying 3 high-potential startups that aligned with HP's strategic goals
- Sourced and evaluated 3 startups, providing insights that improved investment prioritization by 18%
- Created market analysis presentations in Microsoft PowerPoint, communicating suggestions to drive profitability

CMU, School of Computer Science – Intro to Deep Learning (PhD Level) | United States September 2024 -October 2024

#### AI - Frame-Level Speech Classification Using Custom MLP

- Developed a deep learning model on GCP achieving 86% accuracy for phoneme classification using 19M speech frames
- Enhanced frame-level phoneme classification accuracy by 15% through experimentation with various model architectures
- Reduced training time by 10% through hyperparameter tuning, maintaining model accuracy

Gap Inc. | Hyderabad, India May 2024 - July 2024

#### Automated Journal Approver Notification System

- Identified and addressed critical flaw in Oracle systems' approver tracking workflow, **eliminating manual effort by 100%** and reducing journal backlog by 44% through data-driven root cause analysis
- Designed database schema handling 5TB+ of data, enabling real-time tracking of approval workflows across 12 Bus
- Created and validated test cases for the automated workflow system, ensuring **compliance** with organizational standards, improving system performance by 30%, and driving continuous **process enhancements**

### SKILLS

**Technical:** Python, SQL, Machine Learning, Data Analytics (Power BI, Oracle BI, Advanced Excel), AI (Deep Learning)

**Product Management Tools:** Confluence, JIRA, Figma, Visio, MS Office (Word, PowerPoint, Access)

**Cloud Platforms:** Google Cloud Platform, AWS, Oracle Cloud Interface