

## KAY EUGENIA PURNAMA

kayeugenia.purnama@gmail.com | (+65) 84511157 | [github.com/kayeugenia](https://github.com/kayeugenia) |

[linkedin.com/in/kay-eugenia-purnama/](https://linkedin.com/in/kay-eugenia-purnama/) | [kayeugenia.vercel.app/](https://kayeugenia.vercel.app/) | Available on 19 May 2025 - 8 Aug 2025

### EDUCATION

#### National University of Singapore (NUS)

Aug 2022 - May 2026

#### Bachelor of Science in Business Analytics, Second Major in Statistics

- Cumulative GPA: 4.92/5.0; Projected First Class Honours (FCH)
- Relevant Coursework: Programming Methodology in Python and Java, Data Structures and Algorithms, Data Analytics and Visualisation in R, Data Management and Visualisation with Tableau, Calculus, Linear Algebra, Machine Learning, Statistics, Independent Software Development

### AWARDS AND SCHOLARSHIP

- ASEAN Undergraduate Merit Scholarship (2022 - Present)
- School of Computing Dean's List Award (Top 5%) (Year 1 Semester 1, Year 2 Semester 1, Year 2 Semester 2)
- Top Student for Data Management and Visualisation (BT2102), Machine Learning (CS3244), and Application Systems Development for Business Analytics (BT3103)

### WORK EXPERIENCE

#### Software Engineer and Artificial Intelligence Intern

May 2024 - Aug 2024

##### Pints AI

- Developed a comprehensive freemium workflow, incorporating flexible trial period configuration, Stripe payment gateway integration, and a referral program which contributes to over 75% of customer conversions.
- Enhanced advanced company search functionality by implementing web scraping to dynamically retrieve company legal names for inaccurate queries, boosting search capabilities up to 90% and improving user experience
- Integrated advanced Depth Up-Scaling with supervised fine-tuning and optimization techniques, enhancing our proprietary model's performance in Multi-turn Benchmark by 70%
- Engineered prompts for a financial service AI assistant, focusing on minimizing hallucinations and ensuring accurate responses, which led to a 40% increase in user trust and satisfaction, improving the reliability of AI services
- Collaborated in a scrum team, leveraging Agile practices to meet milestones and ensure effective communication

#### Full-Stack Software Engineer Intern

Dec 2023 - Jan 2024

##### Hellmann Worldwide Logistics

- Developed a responsive full-stack web application using ASP.Net (C#), HTML, CSS and Snowflake with Excel data parsing feature to enhance Shipment data imports and integrated CRUD functionalities for data manipulation
- Engineered an Auto-Rating feature for shipment rate cards, automating rate calculations and saving more than 10 hours per week for the logistic team, leading to increased efficiency and productivity
- Addressed challenges related to concurrent user interactions by implementing multi-user layouts and version control

### EXTRACURRICULAR ACTIVITIES

#### Undergraduate Teaching Assistant (CS2030)

Aug 2023 - May 2024

##### NUS Computing

- Taught lab sessions on advanced programming methodology and object-oriented programming in Java
- Achieved an impressive 4.6/5.0 teaching score, guiding all 18 students to 100% A grades on final lab projects

#### Technology Associate at Google Developer Student Clubs NUS (GDSC NUS)

Sept 2023 - Jan 2024

- Led technical workshops including Speech-to-Text bot and React web-application with over 120 sign ups

### PROJECT AND COMPETITION EXPERIENCE

#### National Champion, Project SlumDunk for ASEAN Data Science Explorers Competition 2023

- Conducted data exploration and analysis, as well as created data visualizations to gain insights into the prevalence of slums in ASEAN region using SAP Analytics Cloud, SQL, and Tableau
- Devised a solution that involves the creation of a website aimed at monitoring slum areas using satellite imaging and IOT sensors, as well as connecting volunteers with these communities
- Emerged as a National Champion and 2nd Runner Up in the Regional Finals

#### First Prize Winner, Tiktok Ads Moderation with ML and Gurobi (<https://devpost.com/software/igmoid-masterchefs>)

- Created optimization models with Gurobi in Python to solve the issue of ad moderation on the TikTok platform
- Incorporated CLIP model to detect violations from videos and a bi-encoder to categorize ads
- Developed a full-stack website that takes in a video advertisement, calculates its score, and assigns priority
- Awarded Overall 1st out of over 100 teams that participated

#### cineMOOD: Movie Recommendation Web App ([github.com/kayeugenia/orbital-cinemood](https://github.com/kayeugenia/orbital-cinemood))

- Developed a full-stack web application using ReactJS, Flask, Sentence-BERT model to provide movie recommendations using semantic search and content-based filtering
- Integrated social media functionalities including friend request system to foster a more interactive user experience
- Achieved highest level of achievement (Artemis), awarded to the top 5% out of 518 teams

### SKILLS AND ADDITIONAL INFORMATION

- **Programming Languages:** Python, Java, JavaScript, TypeScript, R, SQL, Kotlin, C#
- **Design and Front-End:** ReactJS, NextJS, VueJS, Blazor, HTML, CSS, Tailwind, Figma, Canva
- **Back-End Web Development:** ASP.NET MVC, Flask, Node.js, Express
- **Cloud and Database Systems:** GCP, MySQL, PostgreSQL, MongoDB, Redis, Firebase, Supabase, Snowflake, Git
- **Written and Spoken Languages:** English, Bahasa Indonesia, and Malay