

# BENEDICT DEOGRATIUS YIGA

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## Educations

**Indiana University Bloomington**

**Luddy School of Informatics, Computing and Engineering**

Bachelor of Science in Computer Science | Business and Data Science Minors | Specialization in AI

**Honors:** Dean's list Fall '23, Direct Luddy admit

May 2027

GPA: 3.79/4.0

## Technical Skills

- **Programming:** Python, HTML, CSS, Java, C/C++, JavaScript, SQL
- **Other:** TensorFlow, PyTorch, SAP, Oracle, Adobe Photoshop, Adobe XD, React.js, Linux, Unix

## Work Experience

**IT Consultant | University Information Technology Services, Indiana University**

May 2024 – Present

- Ensuring seamless operation of campus-wide tech stack, supporting various platforms and services.
- Diagnosing and addressing a wide spectrum of technological issues with Campus networking.
- Resolving for complex issues across diverse computing environments and organization-wide infrastructure.
- Managing campus central systems including email, learning management software, and storage solutions.

**Software Engineer Intern | Steel and Tube Industries Ltd., Uganda**

Feb 2023 – July 2023

- Leveraged **SAP** to analyze vast datasets, fostering a **12%** improvement in alignment across production, sales, finance, and accounting departments.
- Reimagined employee affairs management with **EnQuest**, boosting recruitment and staff evaluation efficiency by **13%**.
- Engineered specialized Python software to optimize zinc coating weight calculations, elevating product quality and manufacturing effectiveness of stainless steel by **10%**.
- Pioneered integration of social media functionalities into the e-commerce platform, igniting a **15%** increase in company sales within 5 months.

## Projects

**PixelScout | Python, TensorFlow/Keras, NumPy, Matplotlib**

June 2024 – Present

- Innovating an image classification system using **CNNs** and **TensorFlow/Keras**, featuring **CIFAR-10** dataset integration, custom image classification, and model persistence. Achieving **95%** accuracy on 10,000+ images, significantly reducing manual classification time. Designed with a modular architecture, intuitive prediction interface, and compelling visualization tools.

**EazyFlow | Python, NumPy, scikit-learn**

May 2024 – Present

- Engineering an AI-powered **traffic ecosystem**, seamlessly integrating data from **500+** smart intersections. Leveraging **NumPy** for data manipulation and **scikit-learn** for machine learning to deliver intuitive, responsive traffic flow, optimizing wait times and reducing vehicle emissions through time-series analysis and predictive modeling.

**AveMenu | Java**

April 2024 – August 2024

- Developed a Java-based Hotel Menu System application utilizing object-oriented programming principles, featuring real-time order processing, dynamic menu management resulting in streamlined operations and improved efficiency for hotel staff.

**Winner(3<sup>rd</sup>) – ALDI AI Case Competition | Business Class BUS-K201, Indiana University**

Jan 2024 – May 2024

- Spearheaded comprehensive analysis of ALDI's retail business model, unveiling key operational challenges.
- Crafted and presented an AI-driven solution at ALDI HQ in Chicago, IL projecting a **4-8%** sales boost.

**Underrepresentation in technology | Informatics Class INFO-I101, Indiana University**

Sept 2023 – Dec 2023

- Designed and launched an interactive website using **HTML**, **CSS**, and **Adobe XD**, increasing recognition of underrepresented tech figures by **8%** as measured through online surveys and boosted community engagement.

## Student Involvement

**Senator | National Society of Black Engineers, Indiana University**

April 2024 – Present

- Transform fundraising events, boosting chapter participation in regional and national conventions and engagement while supporting local charities.
- Develop and execute strategic initiatives to boost member acquisition and retention, achieving **30%**-chapter growth.
- Cultivate professional and social skills among members, accelerating their career trajectories.

**Student Ambassador | Luddy School of Informatics, Computing and Engineering, Indiana University**

Jan 2024 – Present

- Spearhead outreach initiatives for high school students and parents, highlighting Luddy's innovative tech degrees and vibrant student life through engaging faculty presentations while introducing career services and academic advising teams.

**Undergraduate Student Representative | Machine Learning for All Club, Indiana University**

Jan 2024 – Present

- Led a team project that integrated machine learning with **IoT** devices, resulting in a prototype smart home system that optimized energy usage by **3%**.
- Completed over **100** hours of practical coding in **Python**, gaining expertise in deploying machine learning models in real-world scenarios.