

Debasish Tripathy

Computer Science Undergraduate — Cybersecurity

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Experience

Business Analyst Internship, (*Internshala*) 05/2023 - 09/2023

- Conducted comprehensive analysis of business requirements, resulting in refined user stories and improved project understanding.
- Collaborated with cross-functional teams to gather and document business needs, ensuring alignment between stakeholders and development teams.
- Implemented process improvements, optimizing project efficiency and reducing delivery time by 15%.
- Maintained effective communication with stakeholders, providing regular updates on project progress and addressing any concerns or issues.

Python/ML Developer Internship, (*PSYLIQ*) 12/2023 - 01/2024

- Collaborate with cross-functional teams to design, develop, and deploy machine learning models for various applications.
- Utilize Python libraries and frameworks, such as TensorFlow and scikit-learn, to implement and optimize machine learning algorithms.
- Conduct thorough testing and debugging of code to ensure the robustness and reliability of machine learning models.
- Analyze and interpret data to extract meaningful insights, contributing to data-driven decision-making processes.

AI/ML Developer Internship, (*CodeClause*) 03/2023 - 04/2024

- Collaborate with cross-functional teams to design, develop, and deploy machine learning models for various applications.
- Utilize Python libraries and frameworks, such as TensorFlow and scikit-learn, to implement and optimize machine learning algorithms.
- Conduct thorough testing and debugging of code to ensure the robustness and reliability of machine learning models.
- Analyze and interpret data to extract meaningful insights, contributing to data-driven decision-making processes.

Education

B.Tech Computer Science and Engineering *Manipal Institute Of Technology, Bengaluru, India* 2026

Relevant Courses: Cybersecurity, Machine Learning, Web Development, Data Analysis, Programming Languages, System Design, Compiler Design, Algorithms, Data structure

Technical Skills

- **Programming Languages:** Python, Java, C++
- **Data Analysis and Visualization:** Pandas, NumPy, ggplot, Matplotlib, SQL, Oracle SQL, MongoDB
- **Cybersecurity Tools:** Nmap, Metasploit, Burp Suite
- **Machine Learning:** TensorFlow, Keras, scikit-learn, PyTorch, Transformers, Deep Learning
- **Web Development+Cloud:** HTML, CSS, JavaScript, React, Next, Google Console Programming, Azure

Certifications

- Introduction to Object-Oriented Programming with Java
- Object-Oriented Hierarchies in Java
- Foundations of Cybersecurity
- Introduction to Google Workspace Administration
- Machine Learning Engineering for Production (MLOps) Specialization
- Google CyberSecurity Professional

Projects

- **Dark Web Scrapper Using Machine Learning:** Developed a robust and intelligent machine learning model capable of extracting and analyzing information from the vast and obscure dark web domain. Leveraging advanced web scraping techniques and cutting-edge Convolutional Neural Networks (CNN), the model can efficiently navigate and retrieve data based on specific criteria or filters. This powerful tool enables targeted information retrieval, providing invaluable insights into the shadowy corners of the internet.
Technologies Used: BeautifulSoup, Scrapy, Convolutional Neural Networks (CNN), Python, TensorFlow, Keras.
- **Character AI:** Conceptualized and developed an innovative Flask application that harnesses the power of Google's state-of-the-art GenerativeAI and Natural Language Processing (NLP) technologies. This application serves as an interactive and engaging chatbot, capable of generating detailed and immersive character descriptions tailored to user inputs. Additionally, it facilitates captivating roleplay conversations, delivering a truly personalized and immersive experience for users to explore and interact with the AI-generated characters. The application utilizes MongoDB for storing tokenized user data.
Technologies Used: Flask, Google GenerativeAI, Natural Language Processing (NLTK, spaCy, Hugging Face Transformers), MongoDB.
- **Tarot Card Website:** Designed and implemented a comprehensive Tarot Card reader website using the highly versatile Django framework. This cutting-edge platform empowers users to delve into the realm of fortune-telling by leveraging the Gemini API and advanced Convolutional Neural Networks (CNN) to analyze and interpret intricate Tarot card readings. The website provides users with insightful and personalized predictions, offering a unique and seamless experience in exploring the mystical world of Tarot. The application integrates with a MySQL database to store user questions, responses, and card spreads for potential reuse and analysis.
Technologies Used: Django, Gemini API, Convolutional Neural Networks (CNN), MySQL.

Interests

Cybersecurity, Machine Learning, Data Science, Web Development

Other Works

- **Achievements:** Winner Microsoft AI Odyssey India (competitive Azure product development), Walmart Hackathon 4th position, Unstop Ideathon Round 3 Clarification
- **Other Activities:** President Sustainable Development Club MITBLR, Vice Chair Papers We Love MITBLR (Research paper Discussion), Tech Lead Techfest MITBLR, Discipline Lead Open House MAHE, Volunteer TEDxMAHE, Cybersecurity Captain
- **Papers:** Multidisciplinary Product Paranormal Detection Device, Remote Sensing Geo Satellite, Comparative Analysis of CNN Models on Harmful Brain Activity Prediction
- **Patents:** Style Detector (Silku), Sentiment Analysis Using Bio Parameters (DESEN), Paranormal Detector (PARDEC)