Aditya Mehta

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EDUCATION

Master of Science (MSc) in Information Systems
Nanyang Technological University (NTU)
Relevant Courses: Software Project Management, Managing Information Systems, Information Systems Leadership

Aug 2024 – Present
Singapore

Bachelor of Technology (B.Tech.) in Computer Engineering
Narsee Monjee Institute of Management Studies (NMIMS) - (CGPA 3.82/4)
Relevant Courses: Artificial Intelligence, Cloud Computing, Distributed Systems, Project Management, Object Oriented Software Engineering

Jun 2019 – Jul 2023
Mumbai, India

PROFESSIONAL EXPERIENCE

Data Analyst Intern
RAC IT Solutions Pvt. Ltd

Jun 2022 – Oct 2022
Mumbai, India

- Conducted in-depth product and customer analysis over 3 quarters leading to improvement in sales strategy insights and resulting in more targeted marketing efforts.
- Developed an individual project to analyze customer reviews using sentiment analysis, evaluating user perception towards rentals with 94% accuracy.
- Utilized the resulting data to optimize product recommendations, increasing recommendation relevance and contributing to a 34% rise in click-through rates.

Software Developer Intern
Cogitate Technology Solutions Pvt. Ltd.

Jan 2021 – May 2021
Mumbai, India

- Built a responsive web application replicating a key module of the company's website using ASP.NET, which improved user interface consistency and reduced load times by 16%.
- Configured an API for product listings, improving data updation efficiency and reducing server response time by 20%.
- Engineered a machine learning model to identify fraudulent insurance claims with 93% accuracy, automating 33% of the review process and significantly reducing processing time.

PROJECTS

Transforming NPC interactions in games using Conversational AI 🔗

Jun 2021 – Aug 2023

- Led a team of 4 in developing a scene-based rendition of an open-world game on Unity 3D, enabling natural context-driven conversations with NPCs.
- Adopted an agile methodology, integrating Question Answering and Sentiment Analysis models as centrepieces (fine-tuned to increase use-case-specific accuracy by 3%).
- Incorporated GPT API down the line to further enhance conversing capabilities, increasing overall player engagement by 22%.
- ***Tech Stack***: C#, Python, Socket Programming, Unity 3D, BERT Question Answering and Sentiment Analysis

Music exploration using sentiment analysis 🔗

Jun 2021 – Nov 2022

- Analyzed users' moods based on their input describing how their day went to provide personalized music recommendations by leveraging sentiment analysis (93% accuracy).
- Designed curated playlists targeting specific moods by detecting key phrases and topics, identifying nuanced emotional states beyond typical sentiment analysis.
- Conducted detailed market surveys to optimize user retention strategies, leading to an 18% improvement in music exploration time.
- ***Tech Stack***: HTML, CSS, JavaScript, Python, Flask, Bootstrap, Hugging Face for Sentiment Analysis

Leveraging NLP to gauge consumer perception of rental products

Jun 2022 – Oct 2022

- Employed DistilBERT for sentiment analysis on reviews to assess the overall consumer perception of laptop rentals over the past 1.5 years, yielding a 94% accuracy.
- Simplified data interpretation with topic detection to highlight positive and negative focal points, providing actionable insights for product improvements.
- Identified product placement anomalies, leading to the removal of 2 models from student recommendations.
- ***Tech Stack***: Python, DistilBERT, BERTopic, Pandas, NumPy, SQL

TECHNICAL SKILLS

Programming languages
Python, HTML, CSS, JavaScript, SQL, C#

Frameworks and Tools
ASP.NET, Flask, Bootstrap, Pandas, BERT, GPT API, Hugging Face Transformers, Unity

Miscellaneous
SCRUM and Agile Methodology, High-Level System Design, Product Management, git, AWS

PUBLICATIONS

Exploring the viability of Conversational AI for Non-Playable Characters: A comprehensive survey 🔗
First Author - 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST).

Feb 2022