Indrayani

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SUMMARY

Aspiring AI engineer with a strong foundation in generative AI and large language models, dedicated to leveraging advanced technologies to create impactful solutions for social good. I have worked on AI projects aimed at social impact in the public sector, committed to addressing societal challenges through innovative applications and collaborative initiatives.

EDUCATION

NORTHEASTERN UNIVERSITY Boston, MA, USA
Master of Science in Computer Software Engineering **GPA: 3.5** Expected May 2025
Relevant Coursework: Web Development, Web Design and Frontend Development, Database Design, Algorithms

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY Hyderabad, TG, INDIA
Bachelor of Technology in Computer Science **GPA: 3.8** Jul 2019 - Jul 2023
Relevant Coursework: Data Analysis, Artificial Intelligence, Data Science, Software Engineering, Operating Systems, Algorithms

TECHNICAL SKILLS

Languages: Python, Java, C++
Generative AI & LLMs: LangChain, GPT-4, Transformer models, OpenAI API
DataScience & ML: TensorFlow, Keras, PyTorch, Scikit-learn, NumPy, Pandas, XGBoost
Database: Oracle SQL, MySQL, MongoDB, PostgreSQL, Redis
Cloud & DevOps: AWS (EC2, S3, SageMaker), Docker, Git Actions CI/CD
Web Technologies: React.js, Next.js, Node.js, Redux, Express.js
Tools: Jira, Github, Microsoft Office, Excel

WORK EXPERIENCE

VIRTUSA Hyderabad, TG, INDIA
Software Engineer Intern Jan 2023 – Aug 2023

- Built an internal application using **Python** for data analysis and backend processes, **Pandas** for data manipulation, and **React.js** with **Chart.js** for frontend visualization. Integrated **AI and machine learning algorithms** to forecast trends and analyze core business KPIs (e.g., Monthly Recurring Revenue), saving 10 hours per week of manual reporting work.
- Automated the code review process by integrating with **Microsoft Teams**, streamlining team collaboration and improving review efficiency by 80%
- Collaborated with cross-functional teams to identify and address bottlenecks in workflows, resulting in a 20% increase in overall team productivity.
- Presented technical findings and solutions to stakeholders, effectively communicating complex concepts to both technical and non-technical audiences

STREET CAUSE(NGO) Hyderabad, TG, INDIA
Technology Volunteer Oct 2019 – Jul 2023

- Developed an AI-powered Virtual Mental Health Counselor using natural language processing to provide personalized therapeutic support to individuals seeking mental health care.
- Built a Python-based system to analyze data from community outreach activities, providing insights into volunteer participation and project impact.

UNIVERSITY PROJECTS

GENERATIVE AI RAG PROJECT: DRIVING RULES & REGULATIONS ASSISTANT

- Developed a generative AI retrieval-augmented generation (**RAG**) application using **Python, LangChain, GPT-4 and Streamlit** that interprets user queries about driving rules and provides accurate, contextually relevant responses using a comprehensive driving manual.

PREDICTING TERM DEPOSIT SUBSCRIPTIONS

- Developed and implemented classification models using **Decision Tree, Logistic Regression, and Random Forest** algorithms to predict customer subscription to term deposits, improving model accuracy by 95%.
- Leveraged customer data from bank marketing campaigns to analyze key features influencing customer decisions, driving targeted marketing strategies.

SENTIMENT ANALYSIS - RESTAURANT REVIEWS

- Designed and implemented **NLP**-driven sentiment analysis with 92% accuracy on over 500,000 reviews using **Python and VADER**, showcasing expertise in natural language processing and analytical skills
- Optimized data processing workflows, achieving a 20% increase in efficiency, and demonstrated proficiency in technical skills and data management within an ML context

PREDICTION OF HOUSE PRICES

- Analyzed and predicted house prices using various features from the Innercity house price dataset, applying machine learning models such as Regression and Ensemble techniques.
- Implemented grid search algorithm to optimize hyperparameters, improving model accuracy and performance in house price prediction.

ANTI FRAUD DETECTION MODEL

- Achieved 97.71% accuracy in fraud detection using a deep learning model on the Lending Club dataset, demonstrating exceptional analytical and machine learning proficiency
- Enhanced data preprocessing efficiency by 20%, employing techniques like Random Forest imputation and SMOTE for imbalance correction, showcasing innovative problem-solving skills
- Led to a 30% reduction in false positives compared to traditional fraud detection models, markedly improving the efficiency and reliability of Internet loan fraud detection

LEADERSHIP EXPERIENCE

Tech for Good: Launched a club at Jawaharlal Nehru Technological University to host workshops and hackathons focused on creating technology solutions for local community challenges.