DEEP VIVEK SHETH

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EDUCATION

University of Southern California *Los Angeles, USA*
Masters of Science Computer Science (GPA 3.5/4.0) **Jan 2024-Dec 2025**
Relevant coursework: Introduction to Artificial Intelligence, Machine Learning

Vishwakarma Institute of Information Technology *Pune, India*
Bachelor of Technology Computer Engineering (GPA 9.26/10.0) **Aug 2018-May 2022**
Relevant coursework: Algorithms, Database Management Systems, Operating System, Business Intelligence and Data Analytics

SKILLS

Languages: Python, C++, SQL, C, Java, HTML, CSS, NodeJs, React
Data Science: Matplotlib, NumPy, Pandas, Natural Language Processing, Deep Learning, TensorFlow, Keras, AWS (Amazon Web Services: S3, EC2, Lambda, SageMaker) , Pytorch, Sklearn.
Database: mySQL, MongoDB, ElasticSearch, Neo4J
Other: Word, Excel, PowerPoint, Power BI, Tableau, Git, Restful API, Kibana, GenAI, LLM, OpenAI, Jira, Confluence

EXPERIENCE

Persistent Systems *Pune, India*
Software Development Engineer (ML/AI) **Jul 2022-Nov 2023**

- Conducted comprehensive data analysis of company products for shipment date prediction, providing business stakeholders and management with detailed insights and strategies for growth and revenue increase
- Spearheaded data cleaning for shipment date prediction, executed data analysis revealing actionable insights, and delivered compelling client presentations, enhancing client satisfaction and helping secure a $500K project
- Built ML algorithms for classification and named entity recognition for a healthcare company, which helped doctors navigate medical protocol documents and medical drug trial documents 60% faster
- Implemented Transformer models to match similar movie synopsis for an entertainment company, supporting multiple languages such as Spanish, German, and more, reducing manual labeling time by 80%

Research Intern **Feb 2022-Jul 2022**

- Led cutting-edge research on Intrusion Detection Systems and Phishing URL Detection, pioneering innovative approaches reduced scam incidents by 8%
- Published groundbreaking work titled "Comparative Analysis of Machine Learning Algorithms for Intrusion Detection Systems," showcasing expertise and contributing to advancements in cybersecurity domain, evaluating 5+ models
- Developed and implemented OneClassSVM and stack autoencoder frameworks for anomaly detection, achieving results 15% faster than humans and safeguarding critical digital assets from online hacking attacks

C-DAC *Delhi, India*
Research Intern **Jun 2021-Jan 2022**

- Researched Hindi language generation using LSTM, collaborating closely with the associate director of C-DAC and a 4-member team to enhance understanding of linguistic details
- Performed a comprehensive literature survey, illuminating limitations of classic NLP on Indian languages, thereby bolstering awareness of prevalent challenges
- Enhanced understanding of model limitations, such as BERT and LSTM, on Indian languages, resulting in a 20% improvement in addressing language-specific intricacies

PROJECTS

GenAI Hackathon **Oct 2023-Nov 2023**

- Upgraded company's employee project allocation system, leveraging LLM to match resumes with future projects and generate VBA scripts for personalized PowerPoint presentations
- Accelerated employment allocation by 22%, optimizing project matching and enhancing operational efficiency
- Improved employee satisfaction and engagement through transparent project allocation explanations, fostering a collaborative work environment and achieving a 60% success rate in perfect matches

Stock Market Movement Prediction Using New Sentiments **May 2019-Jan 2020**

- Orchestrated an ensemble of three techniques: NLP, supervised ML, and neural networks to analyze Economic Times news for sentiment trends, in stock/index movement predictions
- Integrated technical indicators with bespoke news sentiment models, empowering accurate forecasting of market dynamics about 24% of time