

# Vivek Anand K S

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## Summary:

Passionate ML/AI Engineer with 2+ years of experience in designing and implementing machine learning models and data-driven solutions to increase efficiency, accuracy, and utility of internal data processing. Experienced to analyse (several) deep learning algorithms and in identifying the role of the various critical knobs in algorithms, Implementing Machine learning and data science knowledge to manage statistical machine learning and data-related solutions. Also proficient in developing algorithms for predictive analytics and natural language processing. Adept at collaborating with cross-functional teams to solve complex problems. Eager to contribute expertise to AI initiatives.

## Technical Skills:

- Programming Languages: Python
- Machine Learning Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn
- Natural Language Processing: SpaCy, NLTK, Text blob, Hugging face- LLMs
- Data Analysis and Visualization: NumPy, Pandas, Matplotlib, Seaborn, Tableau, PowerBI
- Databases: MySQL
- Cloud Platforms: Azure-ML studio, AWS-Sage maker.
- Version Control: Git, GitHub

## Certifications:

- Machine Learning pipelines with Azure ML Studio | Coursera | <https://coursera.org/share/15031edcfac961814d41fc6352ee5cda>
- Neural Networks and deep learning in python | Udemy | <https://www.udemy.com/certificate/UC-4a34a8c3-4640-44b9-a341-82a8e4d503e9/>
- Artificial Intelligence | Simplilearn | <https://simpli-web.app.link/e/kRQCvwwPjvb>
- Natural Language Processing (NLP) and Text Mining | Simplilearn | <https://simpli-web.app.link/e/aUjyDkMbdivb>
- deep learning | Simplilearn | <https://simpli-web.app.link/e/r9qzKLuBbvb>

## Professional Experience:

### Machine Learning Engineer | Amigoways Technologies private ltd | June 2021 - Present

As a dedicated and innovative Machine Learning Engineer at Amigoways Technologies Private Ltd, I have successfully contributed to a diverse range of projects aimed at solving complex problems through the application of machine learning and data science techniques. My experience encompasses a wide array of domains, reflecting my adaptability and expertise in delivering impactful solutions. Some of my key accomplishments include:

- **Credit Card Fraud Detection:** Developed a robust machine learning model that accurately identifies fraudulent credit card transactions, utilizing advanced anomaly detection techniques and ensuring enhanced security for financial transactions.
- **Insurance Fraud Detection:** Led the development of an insurance fraud detection system that employs predictive modelling to identify potential fraudulent claims, enabling the reduction of financial losses for the company and ensuring fair insurance pay-outs.
- **Stock Market Prediction:** Designed and implemented a stock market prediction model using time series analysis and machine learning algorithms, providing valuable insights to investors and aiding in informed decision-making.
- **ATM Cash Management Prediction:** Created a predictive analytics solution for ATM cash management, optimizing cash replenishment schedules based on historical usage patterns and minimizing cash-related operational costs.
- **Sales Telegram Bot:** Developed a Telegram bot integrated with machine learning capabilities to assist the sales team, providing real-time product information, answering customer queries, and automating order processing.
- **Call Centre Call Sentiment Analysis using Whisper:** Implemented call sentiment analysis using the Whisper ASR system, enabling automatic categorization of customer interactions and facilitating improved customer service and support strategies.
- **Web Scraping and LLM Chatbot Training:** Engineered a web scraping pipeline to collect and pre-process data for training a Large Language Model (LLM) chatbot powered by OpenAI. This allowed for the creation of a contextually aware and responsive chatbot for seamless customer interactions.

### Professional Development | Madurai, Tamilnadu | June 2019-January 2021

- Studied extensively through online courses, textbooks, and research papers to build a solid foundation in ML, DL, and AI concepts.
- Gained proficiency in programming languages such as Python and utilized libraries like Numpy, Pandas, scikit-learn, Matplotlib, seaborn, Tensor Flow, and Keras for model development.

- Engaged in data engineering tasks, including data pre-processing, feature engineering, and data pipeline design.
- Worked on practical ML and DL projects, including image classification, natural language processing, and predictive modelling.
- Developed a strong understanding of neural networks, including convolutional neural networks (CNNs), recurrent neural networks (RNNs), LSTMs, GAN etc.,
- Experimented with cloud-based platforms like AWS and Azure to explore scalable and cost-effective ML and AI solutions.
- Practiced model deployment using technologies like Docker and Kubernetes.
- Collaborated with online communities, participated in forums, and contributed to open-source ML projects to foster skill growth.
- Kept abreast of the latest industry trends, emerging technologies, and research breakthroughs in ML, DL, and AI.

Engineer(Civil) | Rites Limited (A Govt of India Enterprise) | September 2016 - May 2019

- Spearheaded the collection of bridge condition and inventory data across Andhra Pradesh & Telangana for three years, employing cutting-edge techniques including the Mobile Bridge Inspection Unit (MBIU) to acquire comprehensive insights.
- Employed Python programming to analyse the collected data, deriving valuable insights into the condition of various bridge structures and culverts, showcasing proficiency in data analysis techniques.
- Collaborated closely with the team to ensure accurate interpretation and formatting of inspection and inventory data for consistent, day-to-day submissions to the client.
- Expertly crafted Monthly, Half Yearly, and Annual Summary Reports using Python-based data analysis, transforming intricate datasets into clear and actionable information for timely client delivery.
- Effectively communicated with consultants, providing Python-coded insights to address project-related matters and ensure seamless coordination throughout the project's progression.
- In this capacity, I harnessed my expertise in Python programming and data analysis to unlock meaningful patterns from complex structural data, enabling informed decision-making and elevating the overall project impact.

Project Engineer | P R Builders | Madurai, Tamil Nadu | January 2015 - September 2016

- Led design and detailing of projects, ensuring timely execution drawing submissions and obtaining construction approvals from local bodies.
- Managed project resources, prepared progress reports, and maintained Quality Assurance & Quality Control (QA&QC) standards.
- Maintained comprehensive project records and resolved on-site challenges, fostering smooth project operations.

Research Assistant | Indian Institute of Science | Bangalore, India | July 2014 - December 2014

- Research on Earthquake Geotechnical engineering, Seismic Characterization and Site Response of the Municipal Solid Waste Landfill in Bangalore
- As Research Assistant was involved in reviewing the researches done so far in relevant to Geo-technical Earthquake Engineering.
- Analyse the researches and finding an innovative idea for our research, Handle the MASW Earthquake survey equipment to site and taking experimental results from site
- Processing the experimental results using softwares like Deepsoil, Seismo signal, Quad4m etc., Developed G/Gmax and Damping curve with higher accuracy for our country.
- To Analyse the Problem and Solving method and to Prepare the Paper for Publications.
- "Published a Paper on “Seismic Characterization and Dynamic Site Response of the Municipal Solid Waste Landfill in Bangalore, India” Anbazhagan P, Ph.D; SivakumarBabu G.L, Ph.D; Lakshmikanthan P, M.E; **VivekAnand K.S, M.E** (Accepted at the Journal of Waste Management & Research, Elsevier)".

Trainee Engineer | Sri Madurai Meenakshi Infrastructure Development Company | Madurai, Tamil Nadu | March 2013 - February 2014

- Designed and prepared Detailed Project Reports (DPR) for road development projects, including major and minor bridges, box culverts, vehicle underpasses, and pipe culverts.
- Conducted topographical surveys, aligned project elements, and prepared comprehensive survey reports.
- Collaborated with clients and stakeholders to ensure successful project execution.

**Education:**

2014 | M.E (Structural Engineering) | Civil | RVS CET Dindigul | Anna University Chennai.

2012 | B.Tech (Civil Engineering) | Kalasalingam University Srivilliputhur TN.

**Languages:**

English | Tamil | Telugu | Hindi | Sourashtra

**Hobbies:**

- Kaggle competitions, writing tech blogs, teaching the technology to juniors and students.