

# DHRUV KANT LADIA

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## WORK EXPERIENCE

- Simplilearn** (Growth stage), Product Associate in AI & ML Team Jan 2024 - Present
- Led the development of 3 *high-impact products* by conducting in-depth research, emphasizing the integration of *VAEs, GANs, LLM application building, and AI PDLC*, increasing the revenue per product by **10%**.
  - Facilitated internal and external collaboration to align product vision for integrating *automated conversation agent* for the website and LMS, ensuring a lag-free user and learner experience resulting in **15% lesser customer support traffic**.
  - Conducted competitive benchmarking to identify industry trends, refine product positioning, and drive strategic decision-making for the launch of a GenAI-based product for senior management, later published in a public article.
- Futr Studios** (Early stage), Machine Learning Engineer Sept 2023 - Dec 2023
- Researched and developed a *context-based chat system* using *conversational buffer memory* with *Llama2 & Mistral Orca* and deployed it for India's first virtual influencer with over 55,000 followers.
- Ginesys**, Integration Trainee Jun 2023 - Jul 2023
- *Enhanced ERP module usability* and performance by documenting functionality, designing test cases, UML diagrams, and flowcharts *reducing common failures by 18%* and streamlined cross-team communication with SRS document for new sub-module integration.
- Ganesham Securities**, Data Analyst Mar 2023 - May 2023
- Applied ML algorithms (e.g. *regression, time series forecasting*) to create analytics and predictive models to inform profitable trading decisions.
  - Organized financial data (stock performance, trading volumes, news sentiment) for research and decision-making.
- Penning Down Success**, Co-Founder Apr 2020 - Feb 2021
- Conducted artist outreach and engaging interviews, resulting in a 40% increase in viewership, demonstrating audience development skills.
  - Executed strategic social media marketing campaigns to promote interviews, leading to a 25% increase in engagement metrics (likes, shares, comments).
  - Developed partnerships with 12 emerging artists through targeted outreach, expanding the podcast's reach and demonstrating content acquisition abilities.

## PROJECTS

- Suicidal Tendency Detection & Prevention Chatbot** | [project link](#)
- Developed a text classification model using *SVM, K-means clustering, and 1D CNN* using embeddings from fine-trained *GloVe, Word2Vec & ELECTRA* achieving 97% accuracy.
  - Developed an *AI chatbot* with a *custom response retrieval system* with *Microsoft Dialo-GPT*.
- Emotion-Based Movie Recommendation System** | [project link](#)
- Developed a *Python*-based recommender system utilizing facial recognition (*Keras, CNN*) to suggest content based on user mood.
  - Attained an *accuracy of 98%* based on a public survey with a pilot release.
- Mobile Banking Application** | [project link](#)
- Developed the backend for a banking application using Python, enabling secure money transfers, balance inquiries, nominee management, and robust error handling to ensure data integrity.

## SKILLS

**Programming Languages:** Python (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn), C, C++, SQL, Matlab  
**AI/ML:** Keras, PyTorch, HuggingFace, Kaggle, Weights & Biases, No-Code ML, Conversational AI, NLP, LangChain, LLM  
**Tools:** Google Colab, GCP, AWS, Jupyter Notebook, Flask, JIRA  
**Certifications:** Python by University of Michigan [certificate](#), Machine Learning by Stanford [certificate](#), MATLAB [certificate](#)

## EDUCATION

SRM Institute of Science & Technology, Chennai, IN June 2019 - Oct 2023  
**B.Tech, Computer Science Engineering, CGPA: 8.3/10**  
**Relevant Courses:** Artificial Intelligence, Formal Language and Automata, Probability and Queuing Theory, Data Structures and Algorithms, OOP, DBMS, Design and Analysis of Algorithms, High Performance Computing