

# Ananya Deepak Deoghare

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[github.com/AnanyaDeoghare](https://github.com/AnanyaDeoghare)

## TECHNICAL SKILLS

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### Tools and Languages:

Git, Python, MATLAB, C, C++, Java, SQL, Pandas, Scikit-learn, Tensorflow, Pytorch, OpenCV, Scilab, Visual Studio, Pycharm, Perforce, Amazon Redshift, Hive

### Statistics/Machine Learning:

Statistical Analysis, Data Mining, Data Visualization, Informatica, ETL, Tableau, Image and Video Processing, Computer Vision, Clustering and Classification, Deep Learning, Feature Extraction, Signal processing, Generative AI, LLM(Large Language Models)

## EXPERIENCE

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### Associate Algorithm Engineering

Jun 2023 – Present

Quinstreet

*Foster City, CA*

- Utilized predictive modeling and feature engineering to conduct comprehensive data analysis on a personal loans user database, identifying key trends and patterns. Leveraged clustering algorithms and A/B testing to optimize click-through rates for advertisers, projected to increase engagement by 10%.
- Developed, deployed, and optimized machine learning models, including Gradient Boosting Machines (GBM), by leveraging hyperparameter tuning, cross-validation, and feature selection for ranking and predictive analysis in the banking domain. Achieved enhanced model accuracy and relevance, directly impacting business outcomes through improved decision-making and actionable insights.
- Conducted weekly analysis of user interactions to optimize the machine learning model, leading to a 5% increase in accuracy and a 10% decrease in error rate.
- Applied extensive feature engineering and selection techniques to identify and extract key predictive factors, significantly improving model efficiency, accuracy, and interpretability for both banking and personal loans data.
- Collaborated closely with data engineering and product teams to deploy machine learning models into production, delivering real-time insights that informed high-stakes decision-making.
- Conducted continuous model evaluation and optimization, utilizing techniques in hyperparameter tuning and cross-validation to ensure robust, high-performing models aligned with business goals.
- Designed and implemented a comprehensive testing suite for a critical simulator, leveraging Cython for computational optimization, achieving a 50% reduction in processing time and ensuring robust alignment with production-grade standards.

### Engineering Intern

Jun 2022 – Sep 2022

VidMob

*New York, NY*

- Developed and managed the full-stack development of an ad-tech platform using Python and AI, integrating machine learning pipelines for analyzing creative performance and ad effectiveness.
- Designed and implemented advanced machine learning algorithms, including deep learning models for computer vision, achieving a 25% increase in accuracy for scoring ad engagement data.
- Conducted extensive testing and evaluation of new machine learning-based methods for predicting online advertisement engagement, resulting in a 5% boost in overall client satisfaction rates.
- Collaborated with cross-functional teams, including data, product, and engineering, on the design and deployment of AI algorithms such as predictive modeling and recommendation systems, improving overall team efficiency by 15%.

### Student Researcher

Jul 2020 – January 2023

University of California, Los Angeles(UCLA)

*Los Angeles, CA*

- Collaborated with a team of engineers to develop and implement a state-of-the-art Shift Robust Loss Function for rPPG, resulting in decreased error by 40%.
- Worked with team to diagnose skin-tone bias in the medical application using multimodal fusion between radar and RGB data<sup>[1]</sup>. As a result, the team was able to develop an algorithm that improved accuracy by 75%.

### Software Engineer & Data Analyst

Jun 2019 – Jul 2021

Accenture

*Bangalore, India*

- Qualified as a semi-finalist in the Global Innovation Challenge held by Accenture after demonstrating exceptional problem-solving skills, creativity, and ability to work under pressure.
- Developed and implemented innovative data analysis techniques to enhance the accuracy of drug sales performance monitoring, resulting in a 20% increase in competitor match rate and recognition from the Australian team.

- Leveraged expertise in ETL and BI tools to represent monthly and weekly effectiveness of client resources, leading to a 15% boost in productivity.
- Developed and implemented agile development methodologies to enhance team productivity, resulting in a 25% increase in project completion rate.
- Spearheaded the creation and implementation of automated data cleaning and processing workflows, resulting in a 50% reduction in analysis time for pharma sales data.

## EDUCATION

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### University of California, Los Angeles(UCLA)

MS in Electrical and Computer Engineering [GPA: 3.97/4.0]

Expected 2023

*Los Angeles, CA*

### PES University

BTech in Electronics and Communication Engineering

Aug 2015 - Aug 2019

*Bangalore, India*

**Eyantra 2016 Robotics Competition** - Coached a team of 3 students to the semi-finals in a National Level Robotics Competition where I successfully managed and delegated tasks to ensure that the team met all deadlines. The robot performed navigation tasks and we build an arm for the robot to pick up objects.

## PROJECTS

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- **Automatic Garbage Segregator:**
  - 1) Engineered a crane that could segregate waste into biodegradable, non-biodegradable, and electronic waste with an accuracy of 95.18%.
  - 2) Tested various Feature Extraction techniques like PCA, LDR, and Convolutional Neural Networks.
- **Multi-Class EEG Motor Imagery Classification Using Deep Learning Architectures**
  - 1) Implemented various deep learning techniques, including CNNs, LSTMs, RNNs, VAEs, Transformers and attention to achieve multi-class classification accuracy of EEG signals for motor imagery tasks.
  - 2) Demonstrated the potential of deep learning techniques for EEG signal analysis by achieving a classification accuracy rate of 75% on the entire dataset.
- **Detecting Pulse from Head Movement:** I replicated the paper “Detecting Pulse from Head Movement” by Guha Balakrishnan, Fredo Durand, John Guttag. The code was able to detect the Heartbeat with an error of around 2-5%. The code was done in Python and it took around 2.5 weeks to complete

## PUBLICATION & CERTIFICATIONS

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**SIGGRAPH 2022** [Blending camera and 77 GHz radar sensing for equitable, robust plethysmography](#)

## EXTRACURRICULAR ACTIVITIES

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- I am a professional Bharatnatyam Dancer and was in the top 50 in the Senior exam.
- Heavily participated in **IEEE Symposium Series on Computational Intelligence** held in Bangalore, presenting research and contributing to discussions.
- Member of the **Centre of Intelligent Systems** (a research center) at PES University, where I conducted research and collaborated with other members.
- Co-ran the Operations team for Epsilon 2016, a science fest that saw over 100 events and 2000 participants.