

# CHAITANYA NIRHALI ( Founder and CEO, Data Scientist)

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## EDUCATION

### Savitribai Phule Pune University

Bachelor of Engineering in Computer Engineering; CGPA: 9.13/10.0

Pune, India  
Aug 2016 - Aug 2020

## SKILLS

- **Languages:** Python, C++, Java
- **Machine Learning:** Classification, Regression, Time Series Forecasting
- **Web Technologies:** HTML, CSS, JavaScript
- **Database Technologies:** SQL, PostgreSQL, MongoDB
- **IDE:** PyCharm, Anaconda(Jupyter Notebook)
- **Data Engineering:** Apache Airflow, Apache Druid, Apache Spark, ETL, Data Visualization, Data Modeling, Azure Fundamentals, AWS S3, Amazon Redshift
- **Other:** Kubernetes, Docker, PostMan, PuTTY, LaTeX, Flask, WordPress, Tableau, Matlab, Transformers, LLM

## EXPERIENCE

### Nexus Innovations Group <NIG>

Founder and CEO

Remote  
June 2023 - Present

#### ◦ Early Disease Detection:

- \* Our current focus is on Alzheimer's Disease Detection. For reference please check the Projects section UG-Fellow Section.
- \* Utilizing the NIFTI Format MRI scans as the Data from ADNI (Alzheimer's Disease Neuroimaging Initiative).
- \* Incorporating Generative Artificial Intelligence and Image Processing Techniques.

**Technology Stack:** Language - Python, R | Product - Nexus Innovations Group <NIG>

### Freelancer

Data Scientist

Remote (Part-Time)  
June 2023 - Present

#### ◦ Worked on multiple mini-projects and few company projects:

- \* Developed a sentiment analysis model using a Transformer-based architecture (BERT) to classify customer reviews as positive, negative, or neutral.
- \* Preprocessed and tokenized text data, trained the model on a labelled dataset and fine-tuned it for the specific domain. Implemented this model in a web application, allowing users to submit reviews and receive instant sentiment predictions.
- \* Proficient in large language models (BERT), worked on in-depth NLP analysis, fine-tuned various models, and adapted those for specific company domains.

**Technology Stack:** Language - Python | Libraries - TensorFlow, PyTorch, Hugging Face Transformers, Flask, Rasa

### Tellius India Pvt. Ltd.

Data Scientist

Bengaluru, Karnataka, India  
October 2022 - May 2023

#### ◦ Advanced Use Cases Development with the Data Science Team:

- \* Conducted comprehensive data analysis, leveraging Python and SQL to extract insights and patterns from large and complex datasets, guiding product development and strategic decision-making.
- \* Collaborated with solution engineers to architect and optimize data pipelines, ensuring the seamless flow of data from various sources into the product's analytics environment.
- \* Evaluated Time Series Forecasting models performance through rigorous testing and validation, fine-tuning hyperparameters to achieve optimal accuracy and generalization across different use cases.

**Technology Stack:** Language - Python, SQL | Product - Tellius

### WhizAI

Software Engineer

Pune, Maharashtra, India  
December 2020 - October 2022

#### ◦ Worked as a Solution Consultant with the Solution Team:

- \* Designed and implemented scalable data pipelines utilizing Apache Airflow that processed and transformed large datasets.
- \* Continuously optimized data pipelines for performance and reliability, implementing best practices to enhance scalability, maintainability, and data integrity. Utilized Python for data manipulation, SQL for querying, and leveraged Cloud Solutions for efficient data processing and storage.
- \* Collaborated with cross-functional teams to conceptualize complex problems, brainstorm innovative approaches, and translate high-level ideas into practical, elegant data engineering solutions.

**Technology Stack:** Language - Python, SQL, RegEx | Tools - Airflow, Druid, Putty, Postman | Product - WhizAI

## PROJECTS

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- **Machine Learning Based Malware Detection:**

- We composed an encoder file that is utilized to extract the headers of a file that is classified as malicious or legitimate.
- We built a web app that allows users to upload a file, and the pre-trained machine learning model helps to identify the file as malicious or legitimate.
- **Technology Stack:** Language - Python | Algorithms - Random Forest, Decision Tree, Ada Boost, Gaussian Naive Bayes, Gradient Boosting. | Tools - Anaconda(Jupyter Notebook) | Deployment - Flask

**Stevens Institute of Technology**

*UG-Fellow*

New Jersey, USA

*June 2018 - July 2018*

- **Early Detection of Alzheimer's Disease using ML and Image Processing Techniques:**

- \* The main aim of the project was to improve the accuracy of existing ML Algorithms with a focus of the project mainly on data pre-processing techniques using various tools to achieve the expected results.
- \* The result of the project was improved accuracy by following our data preprocessing methodology i.e. incorporating the use of Gray matter volume reductions.

**Technology Stack:** Language - Python | Tools - Matlab(SPM12)

## CERTIFICATIONS

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- Machine Learning by Stanford University on Coursera earned in September 2019.
- Certificate of UG Fellowship Completion (SIAI 2018) from Stevens Institute of Technology, USA.
- Certificate of Service from ACM for the contribution to the chapter as Webmaster.
- Data Base Management Systems by NPTEL earned in October 2018.
- Programming, Data Structures and Algorithms using Python by NPTEL earned in August 2018.
- Programming in C++ by NPTEL earned in October 2017.

## ADDITIONAL EXPERIENCE & ACHIEVEMENTS

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- Ranked top 5 percentile in the class for all years of engineering.
- Active Member of PCCOE&R ACM Student Chapter.
- Attended Sci-Py International Conference by FOSSEE at IIT Bombay.