

Siddhesh Gunjal

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EDUCATION

University of Mumbai

Bachelor's Degree, Mechanical

Agnel Polytechnic, Vashi

Diploma, Mechanical

Navi Mumbai, India

June 2015 – May 2018

Navi Mumbai, India

June 2012 – April 2015

EXPERIENCE

NielsenIQ

Senior Research Scientist

Pune, India

July 2024 – Present

Currently doing Research for improving ML systems to built world's most trusted consumer intelligence platform, measuring over 97% of world's GDP. Research with AI Agents to get insights from large amounts of Consumer behaviour data and retail product data to help us make faster decisions in real-world scenarios

Tech-stack: Python, Eliza (in-house framework), AzureML, Docker, Databricks, GitHub workflow, CUDA/Cudnn

Apaar Information systems

ML Engineer

Navi Mumbai, India

Oct 2022 – May 2024

Built gstGPT (GenAI powered GST solution for businesses). Built Emo-Detect [1], a user emotion tracking application through CCTV & personal computer to analyse on-floor behaviour. Deployed Multiple WebAR Apps with custom ML based image tracking on client side to increase engagement by 80% and lead conversion by 40% [2] [3]. Deployed NLP based invoice processor to save around 70% time & minimize human error in invoice processing.

Tech-stack: Python, Dart, JavaScript, SQL, Flutter, Flask, FastAPI, Elasticsearch, MongoDB, AWS, Docker, GitHub workflow, CUDA/Cudnn, TensorRT

upGrad

Adjunct Faculty | Data Science Coach

Mumbai, India

Mar 2020 – Mar 2023

As a Data Science Coach my work is to deliver sessions to small groups of people explaining them core concepts of the ML and AI, solving doubts, guiding them to solve actual world problems with Data [4].

Topics covered: Machine Learning, Computer Vision, Natural Language Processing, Reinforcement Learning

LivePixel Technologies

ML & XR Developer

Navi Mumbai, India

Jul 2020 – Oct 2022

Deployed multiple MR Experiences with nReal MR glasses [5] for Science Museum (Government project) to increase student engagement by 90%. Developed DL based motion control & NLP based voice control software for 3D holograms for human like interaction with digital character [6]. AR Car showroom app (Android/iOS) to experience and shop automotive from your home [7]. RatLab VR program to allow medical students learn operation procedures and increase their confidence by 40% during actual procedure/practical [8].

Tech-stack: Python, JavaScript, C/C++, C#, PHP, SQL, AWS, CUDA/Cudnn, TensorRT, Unity Engine, Unreal Engine 4 & 5, SolidWorks, AutoCad, Blender

Bombay Stock Exchange Limited

Visiting Professor

Mumbai, India

Aug 2019 – Mar 2020

My responsibilities were to teach Advanced Data Analytics for stock market and create live dashboards with R-shinny. Tableau integration with R-server for advanced analytics.

Topics covered: Machine Learning with python, Data visualisation with R (R-Shinny), Tableau, R-server integration with Tableau

riidl (Research Innovation Incubation Design Laboratories)

Teaching Assistant | Professor: [Vikramank Singh](#)

Mumbai, India

Feb 2018 – Jul 2018

Taught implementation of various projects using various deep learning models like AI in Self Driving Car (Vanilla model by Nvidia), Q-learning in simple Atari game (Checkers & Flappy Bird), Data visualization and produced a document to debug the code of AI in Self-driving car.

OPEN-SOURCE CONTRIBUTIONS

Slackker

Author & Maintainer | GitHub: [slackker](#)

Slackker is a python package for monitoring your Keras & Pytorch Lightning model training status in real-time on slack & telegram.

Aya 101 & Aya Expanse

Contributor | Ambassador | HuggingFace: [Dataset](#), [Aya 101](#), [Aya Expanse](#)

The Aya model is a multilingual LLM that follows instructions in 101 languages. Aya Expanse is a successor of Aya 101 with. More capable & context length upto 128K!

TableQA

Contributor | GitHub: [tableQA](#)

AI Tool for querying natural language on tabular data. Built using QA models from transformers.

Spatial AR on Web

Author & Maintainer | GitHub: [SpatialAR](#) | Live WebApp: [Link](#)

This WebApp utilizes WebXR API to communicate with Android's ARCore for spatial computing of the surroundings to detect planes and objects

SKILLS

Programming Languages: Python, R, C/C++, C#, JavaScript, Dart, PHP

Machine Learning: TensorFlow, Keras, PyTorch, Generative AI, Computer Vision, Natural Language Processing, Reinforcement Learning

Technical Skills: CUDA/Cudnn, TensorRT, Tableau, Flutter, Docker, AzureML, IBM Watson, Amazon Web Services (AWS), Google Cloud Platform (GCP), CircleCI, Unity Engine, Unreal Engine 4 & 5, SolidWorks, AutoCad, Catia, Blender

TALKS & MEETUPS

Keynote Speaker on "AI/ML for Mechanical Contractors" hosted by Institution of Engineers India (IEI) [9]

Judge at "DataHack 2.0" organized by DJS S4DS hosted by Dwarkadas J. Sanghvi College of Engineering [10]

Live-Coding webinar on "Build & Dockerize your Computer Vision APIs on AWS" [11]

Industry Expert Talk on "Deep Learning – A revolution in Mechanical and Automobile Industry" hosted by Pillai College of Engineering [12]

Speaker on "Artificial Intelligence workshop" hosted by Indian Institute of Technology, Kanpur (IIT Kanpur) – Techkriti 2020 (Non-Core weekend) [13]

Hands-on workshop on "Deep learning in Computer Vision" hosted by 91springboard [14]

Keynote Speaker on "Q-Learning in ML and Game Development Demo" at Big Data Mumbai v 14.0 – Come to code [15]

Keynote Speaker on "Intelligent bots and Self-driving Cars" at Big Data Mumbai v12.0 [16]

Guest Faculty/Speaker on "Git and GitHub" at Vidyalankar Institute of technology, Mumbai in Gadget Guru 2018 [17]