

Sahil Uppal

[LinkedIn](#) | [GitHub](#) | [Medium](#)

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ARTIFICIAL INTELLIGENCE ENGINEER

Skilled and Innovative Artificial Intelligence Engineer with a strong background in developing and implementing AI systems and solutions. Proficient in **Computer Vision**, **Natural Language Processing** and **Machine Learning Algorithms**. Proven track record of delivering successful AI projects and driving innovation in the field.

TECHNICAL SKILLS

Languages	: Python, GoLang, Shell
Frameworks	: Jax/Flax, PyTorch, TensorFlow
LLM	: HuggingFace, LangChain, OpenAI API
Testing	: Selenium, Scraping
Deployment	: Cloud Computing, Docker, MLOps
Version Control	: GitHub
Misc	: Blockchain, Vim

EXPERIENCE (3+ YEARS)

Machine Learning Engineer

Ramco Systems

April 2024 – Present

Chennai, TamilNadu, India

- Converted the operational legacy code into the operational code using the State Of The Art AI solutions

Artificial Intelligence Engineer

Bobble AI

Sept 2021 – April 2024

Gurugram, Haryana, India

- Generated **2.8 Cr revenue** within a quarter for the organization.
- Designed and Developed User Profiling System, which considers **trillions of data** points efficiently and provides meaningful insights for the organizational userbase.
- Designed and developed **Live Intention Recognition** for Bobble AI's flagship keyboard based on user interactions
- Extracting user intentions gives us insights about what advertisements the user might be interested in, which contributes to a substantial portion of the **organization's revenue**
- Awarded with **Rookie Rockstar** and **Most Innovative Solution** back to back

Machine Learning Intern

QuardCure AI

Jun 2021 – Sept 2021

Bangalore, Karnataka, India

- Developed AI based **Medical Image Segmentation** architectures for the segmentation of COVID-19 disease on CT-Scans and X-Rays
- Deployed the solution on Cloud and exposed the API for the clients

Data Science Intern

Iha Consulting Services

Mar 2021 – Jun 2021

Hyderabad, Telangana, India

- Built high accuracy **Automatic License Plate Recognizer** specialized for heavy road vehicles
- Deployed at the Borders of West Bengal using **Jetson Nano**

EDUCATION

Punjab Technical University

B.Tech in Computer Science and Engineering

Jalandhar, Punjab, India

Aug 2018 – Aug 2022

PROJECTS

Custom Train LLM from scratch

Transformer, Attention, PyTorch, HuggingFace, GPT, BERT

[Source Code](#)

- Custom trained multiple Large Language Models from scratch under both domains Autoregressive (GPT-Style) and non-Autoregressive (BERT-Style) on custom languages
- Efficiently handled a giant dataset of 25 Billion sentences on multiple GPUs
- Integrated trained models with LangChain and HuggingFace for better API interface

Neural Image Captioning

Transformer, Attention, PyTorch, ResNet, Git

[Source Code](#)

- Developed an Image Captioning system using the attention mechanism
- One of the first architectures to use transformer architecture on vision domain
- Outperformed Microsoft's same project at that time

Virtual Sudoku Solver

OpenCV, TensorFlow, Keras, Scikit-Learn, Git

[Source Code](#)

- Aims to solve unsolved Sudoku puzzles on paper captured from camera using machine learning
- Optimized well to work in real time

Language Detection and Translation

Attention, TensorFlow, Keras, Git

[Source Code](#)

- Capable of detecting 21 different languages
- Transformer based decoder only sequence to sequence model for Spanish to English translation

Semantic Search through Images/Videos

Multimodality, CLIP, Streamlit, BigData, Git

[Source Code](#)

- Aims to search through a large number of images and videos using a text input provided by user
- Supports upto 100 different languages to use in the search query
- Can Search through hundreds of gigabytes of data within seconds and with minimal resources

INTERESTS

- Open-Source contributor
- Develop prototype architectures for latest research
- Author articles under ML/DL research