

AJEYA KRISHNA

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EDUCATION

IDD (B.Tech + M.Tech) in Engineering Physics, IIT BHU | CGPA : 8.75

2017-2022

EXPERIENCE

Machine Learning Engineer

Jan 2022 - Present

SaaS Labs

Bangalore, India

- Spearheaded the development of [JustcallIQ](#), a pioneering conversational intelligence platform. Revolutionized the platform's capabilities by introducing features like Context-AI, AI Call Scoring and Auto Tag & Priority.
- Made a substantial impact on JustcallIQ's financial performance, generating over **\$500K** in revenue and orchestrating a **15%-30%** increase in the platform's pricing structure, simultaneously enhancing the user experience.
- Utilized Langchain and FAISS technology, developed custom Language Models (**LLM's**), and designed Data Pipelines from scratch to optimize information retrieval accuracy, showcasing advanced technology expertise.
- Developed [SMS Co-pilot](#), displaying tone scores and generating tailored content to match the desired tones. Seamlessly integrated into products like Helpwise and Justcall, leading to a **23%** customer engagement boost.
- Attained a **12%** increase in customer base by integrating Autotag and AI-Priority features. Pioneered Autotag and Priority utilizing advanced Vector Embeddings and Semantic Similarity, deploying on GKE using Docker.
- Reduced model latency to **< 1000ms** using optimization techniques like asynchronous request handling. Integrated conversational intelligence products, resulting in a remarkable **75%** reduction in admin review duration.

Data Science Intern

Aug 2020 - Oct 2020

Datalogy

Delhi, India

- Leveraged data-driven insights to facilitate precise customer targeting and optimize marketing strategies. Conducted extensive data analysis in Python, utilizing libraries such as Pandas, Numpy, Seaborn, and Matplotlib.
- Implemented a diverse range of machine learning models to predict product sustainability, enabling informed decision-making based on data insights. This initiative led to a significant **25%** surge in customer acquisition.

PROJECTS

Speech to Text | Whisper | [Link](#)

Nov 2022 - May 2023

Led the development of an advanced Whisper-based speech-to-text model, achieving remarkable improvements in transcription precision, efficiency and live transcription capabilities, ensuring rapid and accurate real-time conversion.

COVID-19 Classification and Segmentation | Guide Prof S.K.Singh | [Link](#)

May 2021 - Dec 2021

Leveraged transfer learning (ResNet50, VGG-19) to extract CT scan features for COVID-19 prediction, achieving **95%** classification accuracy. Optimized Attention U-Net, achieving a remarkable **74.3** DICE score in lung segmentation.

Predictive Age Group Modeling for Trell Users | Cascade Cup | [Link](#)

Dec 2020 - Jan 2021

Utilized data preprocessing, feature engineering, and diverse classification algorithms to accurately predict age groups for over **1M+** Trell users, at **81%** accuracy, facilitating targeted age-specific strategies in social media advertising.

ACHIEVEMENTS

- Achieved an All India Rank of **2504** in JEE Advanced 2017 among 150,000+ selected students.
- Achieved a Rank **2** out of 9000+ submissions in the Cascade Cup, a ML hackathon organized by IITG .
- Secured Rank **3** out of 50+ teams in Analyticity a Data Case Study Hackathon organized by IIT BHU.
- Finished in Top **10** from 250+ teams in Data Wiz a Case Study Competition organized by SCMHRD Pune.

SKILLS

Natural Language Processing

Python Libraries

Infrastructure and Tools

Langchain, OpenAI, PyTorch, Transformers, GPT, VectorDB, Haystack
NumPy, Pandas, Matplotlib, Seaborn, Sklearn, SciPy, Flask, JWT, FastAPI
Docker, Git, Kubernetes, GCP, Sentry, MongoDB, VM, Redis, Grafana