**Audio Machine Learning Engineer, University Graduate, 2024- job post**

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Hyderabad, Telangana

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Hyderabad, Telangana

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**Job details**

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**Job type**

* **Full-time**

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**Location**

Hyderabad, Telangana

**Full job description**

Note: By applying to this position you will have an opportunity to share your preferred working location from the following: **Hyderabad, Telangana, India; Bangalore, Karnataka, India**.

**Minimum qualifications:**

* Bachelor's degree in Electrical Engineering or Computer Science or equivalent practical experience.
* Experience in C/C++ or Python programming and Machine Learning.

**Preferred qualifications:**

* PhD or Master degree in signal processing, data science and machine learning.
* Experience in audio, speech, and machine learning.
* Experience in DSP and knowledge of embedded systems.
* Excellent problem-solving, analytical, communication and teamwork skills.

**About the job**

Google's software engineers develop the next-generation technologies that change how billions of users connect, explore, and interact with information and one another. Our products need to handle information at massive scale, and extend well beyond web search. We're looking for engineers who bring fresh ideas from all areas, including information retrieval, distributed computing, large-scale system design, networking and data storage, security, artificial intelligence, natural language processing, UI design and mobile; the list goes on and is growing every day. As a software engineer, you will work on a specific project critical to Google’s needs with opportunities to switch teams and projects as you and our fast-paced business grow and evolve. We need our engineers to be versatile, display leadership qualities and be enthusiastic to take on new problems across the full-stack as we continue to push technology forward.

As a key member of a small and versatile team, you design, test, deploy and maintain software solutions.

Our team's objective is to empower our pixels and other devices with innovative and next generation audio features, with an emphasis on achieving unparalleled accuracy and efficiency in the conversion of audio signals. We specialize in developing models for audio processing and regeneration, audio enhancement, and audio analytics for communication and other applications, optimizing, porting, customizing, and validating them on the device to elevate the performance of our pixel and devices to new height.

Google's mission is to organize the world's information and make it universally accessible and useful. Our Devices & Services team combines the best of Google AI, Software, and Hardware to create radically helpful experiences for users. We research, design, and develop new technologies and hardware to make our user's interaction with computing faster, seamless, and more powerful. Whether finding new ways to capture and sense the world around us, advancing form factors, or improving interaction methods, the Devices & Services team is making people's lives better through technology.

**Responsibilities**

* Work on machine learning (ML) projects with a primary focus on speech and audio applications, leveraging the latest techniques and approaches, particularly using Generative AI and LLM.
* Engage in memory and performance optimization to ensure the seamless deployment of ML models on Google hardware.
* Collaborate closely with product, research, and software teams to comprehend ML requirements and deliver solutions that meet key user experiences.
* Work alongside tools and architecture teams to streamline the deployment, validation, and testing processes specifically tailored for Google hardware.
* Play a pivotal role in the development of ML models fine-tuned for Google hardware devices.

Google is proud to be an equal opportunity workplace and is an affirmative action employer. We are committed to equal employment opportunity regardless of race, color, ancestry, religion, sex, national origin, sexual orientation, age, citizenship, marital status, disability, gender identity or Veteran status. We also consider qualified applicants regardless of criminal histories, consistent with legal requirements. See also Google's EEO Policy and EEO is the Law. If you have a disability or special need that requires accommodation, please let us know by completing our Accommodations for Applicants form.