

## Contact

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## Top Skills

Business Requirements

Pattern Recognition

Computer Vision

## Certifications

Fundamentals of Retrieval-Augmented Generation with LangChain

Become a Machine Learning Engineer

Become a Flask Developer

Java for Programmers

Develop Generative AI Applications: Get Started

## Publications

Bandwidth Enhanced Circular Printed Monopole Antenna for Wireless Applications

# Amarnatha Gowda

Senior Machine Learning Engineer | RAG & Generative AI | Python · PyTorch · FastAPI · AWS · Kubernetes  
Bengaluru, Karnataka, India

## Summary

I'm Amar, a Senior Software Engineer with 8+ years in software development and 5+ years focused on AI/ML solutions. I design and deploy scalable machine-learning systems that drive measurable business impact.

I've led RAG-based assistant projects that improved data accuracy by 70% and boosted decision-making speed, raising productivity by 30%. I built entity-recognition pipelines that cut screening time by 60 hours per month and increased HR efficiency by 40% .

I architect real-time APIs in FastAPI and deploy them on AWS EKS with Kubernetes, achieving sub-300 ms latency and 99.9% uptime. I optimize PyTorch models—using ONNX Runtime and quantization techniques—to double inference throughput.

I mentor a team of engineers, establish CI/CD workflows with GitHub Actions and Terraform, and collaborate with data scientists to productionize models reliably. I'm now looking for a Senior/Lead ML Engineer role to build end-to-end AI solutions that scale globally.

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## Experience

PeopleWorks

8 years 2 months

Senior AI Engineer

May 2025 - Present (7 months)

Bengaluru, Karnataka, India

Senior Software Engineer

April 2022 - July 2025 (3 years 4 months)

Bengaluru, Karnataka, India

- Architected a RAG-powered HR assistant, enhancing data accuracy by 70% and increasing productivity by 30%

- Developed entity-recognition ML algorithms in Python and LangChain, boosting HR screening efficiency by 40%
- Built FastAPI inference services on AWS EKS handling 500K+ monthly requests with 99.9% uptime
- Migrated PyTorch models to ONNX Runtime, doubling inference throughput

#### Software Engineer

October 2017 - March 2022 (4 years 6 months)

Bengaluru, Karnataka, India

#### Simplify3x Software Private Limited

##### Associate Software Engineer

April 2016 - September 2017 (1 year 6 months)

Bengaluru, Karnataka, India

- Troubleshooted cross-module bugs using debugger and version control, resolving 80% of technical faults and increasing delivery speed by 22%.
- Standardized processes by documenting common issues and solutions, enhancing team efficiency.
- Collaborated on full-stack features in React and Node.js, serving 10K+ users and boosting engagement by 15%.

#### National Collateral Management Services Limited

##### Whether Station Engineer

September 2015 - April 2016 (8 months)

Hassan, Karnataka, India

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## Education

#### Visvesvaraya Technological University

Bachelor's Degree, Electronics and Communications

Engineering · (2010 - 2014)

#### St Joseph's PU college Hassan

Associate's Degree, PCMC · (2009 - 2010)

#### St Joseph's High School Hassan

High School · (2007 - 2008)