

# Pravin Haligonda

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## SUMMARY

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ML enthusiast with strong foundations in deep learning architectures and research paper analysis. Experienced in understanding complex mathematical concepts and translating theoretical knowledge into practical implementations. Seeking opportunities to contribute to ML projects while continuing to develop hands-on engineering skills.

## RESEARCH PAPER ANALYSIS

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Systematic study of foundational ML research:

- "Attention Is All You Need" (Vaswani et al.) - Transformer architecture
- "Deep Residual Learning for Image Recognition" (He et al.) - ResNet
- "DeepSeekMoE: Towards Ultimate Expert Specialization in Mixture-of-Experts Language Models" (Damai Dai et al.) - DeepSeekMoE
- "DeepSeek-V2: A Strong, Economical, and Efficient Mixture-of-Experts Language Model" (DeepSeek-AI et al.) - Multi-Head Latent Attention

## PROJECTS

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**GPT** | *Python, Jupyter Notebook, RunPod*

[Source Code](#)

- Implemented Attention Is All You Need Paper (Vaswani et al.)

**build-nanogpt** | *Python, Jupyter Notebook*

[Source Code](#)

- Followed Video+code lecture on building nanoGPT from scratch

**deep-learning-core-concept** | *Python, Jupyter Notebook*

[Source Code](#)

- Implemented core concepts from research papers to understand how they work

## EDUCATION

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**Dr. D. Y. Patil Vidyapeeth**

*MBA in Artificial Intelligence and Machine Learning; CGPA: 7.7/10.0*

Pune, India

*Oct 2022 – Aug 2024*

**Shivaji Vidyapeeth**

*Bachelor of Business Administration in Marketing; CGPA: 7.3/10.0*

Kolhapur, India

*Oct 2019 – March 2022*

## TECHNICAL SKILLS

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**Languages:** Python, C/C++,

**Developer Tools:** Git, Jupyter Notebook, Docker, Linux, RunPod

**Core Competencies:** Deep Learning Architectures, Research Paper Analysis, Mathematical Modeling

**Architectures:** Transformers, CNNs, Residual Networks, Attention Mechanisms

**Libraries:** Pytorch, Pandas, NumPy, Scikit-learn, Matplotlib, Plotly

## INTERESTS

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Machine Learning, Computer Vision, Natural Language Processing, Research and Development