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## About Me

Passionate Machine Learning and AI enthusiast with hands-on experience in real-world projects, focusing on the practical application of deep learning and artificial intelligence. Skilled in data science methodologies, statistical analysis, and model evaluation, with a strong foundation in mathematics and computer science fundamentals. Seeking to apply theoretical expertise in a hands-on role developing large-scale AI applications and innovative machine learning solutions.

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## Technical Skills

- **Machine Learning & AI**: Supervised & Unsupervised Learning, Classification, Regression, Transfer Learning, Autoencoders, GANs, VAEs, Model Optimization.
- **Deep Learning**: CNNs, RNNs, LSTMs, GRUs, Attention Mechanisms.
- **Programming & Tools**: Python, TensorFlow, Keras, Scikit-learn, NumPy, Pandas, R.
- **Data Analysis & Visualization**: EDA, SQL, Data Wrangling, Matplotlib, Seaborn.
- **Version Control & Development**: Git, GitHub, Bitbucket.
- **Soft Skills**: Research Thinking, Analytical Problem-Solving, Teamwork, Communication.

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## Education

**Bachelor of Technology (B.Tech) in Computer Science**
Rajiv Gandhi University of Knowledge Technologies, Ongole
**GPA: 8.5/10** | **2021 - 2027** (Integrated Course)

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## Certifications & Academic Achievements

- IBM Certified Machine Learning Course (Coursera) – 2024
- IBM Machine Learning Specialization – 2024
- Deep Learning Fundamentals (edX) – 2024
- Unsupervised Machine Learning (Coursera) – 2024
- SQL for Data Science (edX) – 2024
- Data Analysis with Excel (edX) – 2024
- Gained multiple certifications in emerging AI technologies to enhance technical proficiency.

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## Research & Projects

### Research Experience

- Conducted a **comparative study of deep learning architectures** for predictive analytics and classification tasks.
- Developed an **end-to-end AI pipeline** for healthcare diagnostics using **CNNs & Transfer Learning**.
- Analyzed the impact of **feature selection techniques** on model interpretability and generalization.
- Explored **AI-driven predictive models** in finance, focusing on loan risk assessment.

### Projects

**1. Disease Prediction System**

- Built a **deep learning model** to predict diseases based on symptoms with **93% accuracy**.
- Applied **feature selection techniques** to enhance model performance.
- Developed an **interactive web-based tool** for users to input symptoms and receive probable diagnoses.

**2. Multi-Bank Loan Prediction**

- Developed a model to **predict loan approvals** across multiple banks with **98% accuracy**.
- Applied **Random Forest, SVM, and XGBoost** for financial risk assessment.
- Integrated real-world **loan risk metrics** to enhance model fairness and accuracy.

**3. Karada Scanner (Health Analysis Tool)**

- Built a **deep learning model** for **body composition analysis** (BMI, muscle mass, visceral fat).
- Achieved **94% accuracy** in predicting health risk factors.
- Implemented **real-time data visualization dashboards** for users.

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## Workshops Attended

- **AI Tools Workshop**: Gained hands-on experience with emerging AI technologies, focusing on the latest advancements in machine learning and deep learning frameworks.

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## Leadership & Volunteering

### NCC Commander (2018 - 2020)

- Led **military training drills, rifle shooting practice, and leadership camps**.
- Developed **teamwork, discipline, and strategic thinking** through structured training.

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## Looking Ahead

Eager to **collaborate on AI research** and contribute to **novel deep learning methodologies**. Open to working on **computer vision, reinforcement learning, and AI applications in healthcare, finance, and security.**