DR. P. SRINIVASA RAO

Contact: drpsrao3@gmail.com | +91-9848427530, +91-9494818999
#4-3-142/2/A, Flat.No:102 A, Sai Jyothi Residency, CBIT Colony, Attapur 500048, INDIA

CAREER OBJECTIVE

Seeking challenging positions in AI, Data Science, Machine Learning, and related fields, leveraging extensive academic experience and recent AI expertise to drive innovation and excellence in both educational and technological domains.

EDUCATION

- **Post Graduate in Artificial Intelligence & Machine Learning** (2023)
  - Caltech University in Collaboration with IBM - Simplilearn
  - Core Areas: Data Science, Machine Learning, Deep Learning, Computer Vision
  - Capstone Project: AI Integration in Aircraft Predictive Maintenance
- **PhD in Computational Fluid Dynamics** (2009)
  - JNT University/IISc Bangalore
  - Thesis: "Investigation of Stratified Scavenging in Two Stroke Internal Combustion Engines using Computational Fluid Dynamics"
- **M.Tech in Thermal Engineering** (2002)
  - JNT University
  - Specialization: Heat Power Engineering
- **B.E. in Mechanical Engineering** (1996)
  - Osmania University
  - First Class
- **Bachelor of Law** (2014)
  - Osmania University

PROFESSIONAL CERTIFICATIONS

- **Additional Certifications**
  - Mathematics & Statistics Essentials
  - Applied Data Science with Python
  - Essentials of Generative AI, Prompt Engineering & ChatGPT
  - All India Bar Examination (AIBE) (2017)

PROFESSIONAL EXPERIENCE

Current Positions
- **Principal** - Kommuri Pratap Reddy Institute of Technology
- **Chief Technology Officer** - Curlvee Techno Labs (2016-Present)
  - Spearheading technological initiatives and innovative solutions
  - Providing techno-legal expertise in corporate and patent law
  - Leading AI and ML integration in engineering applications

Previous Positions
- **Principal** - Sree Dattha Institute of Engineering and Science
- **Principal** - Maheshwara Institute of Technology
- **Professor and HOD** - Vardhaman College of Engineering
- **Dean of Aeronautical, Mechanical & Civil** - Institute of Aeronautical Engineering
- **Scientist** - C-DAC, Pune (2002-2008)
  - Scientific Engineering and Computing Group
  - Specialized in CFD research and development
- **System Analyst** - Satyam Computer Services Limited (1996-2000)

TECHNICAL EXPERTISE
- Artificial Intelligence & Machine Learning
- Computational Fluid Dynamics (CFD)
- Python, C, C++, Java, RUST
- Deep Learning & Computer Vision
- Mechanical and Aerospace Engineering
- Legal Expertise in Patent and Corporate Law

SIGNIFICANT PROJECTS

AI and Machine Learning Projects
1. **Aircraft Predictive Maintenance**
   - Integrated AI for predicting Time-To-Failure (TTF)
   - Developed CNN-based Aerofoil Lift-to-Drag Ratio prediction model
2. **Healthcare AI Applications**
   - CNN model for diabetic retinopathy detection
   - TensorFlow Serving implementation
3. **AI Applications**
   - Facial Recognition using Deep Learning
   - Interactive storytelling using GPT-3
   - Employee Turnover Analytics
   - AI-Based creative writing system

1. **C-DAC Projects**
   - IC Engine CFD modeling and optimization
   - High Performance Computing applications
   - Thermal Analysis of 10G SAN Switch
2. **NAL Projects**
   - Aerofoil-flap Design optimization
   - Multi-block Euler solver development

PATENTS

- **Granted Patents**
  - Twin Chamber Storage Device (Patent No.: 399246)
  - Automatic Laptop Lid Closing Device (Patent No.: 481429)
  - 9 Design Patents
- **Published Patents**
  - Di-Coptor and Arms Mechanism
  - Several thermal and mechanical innovations

PUBLICATIONS

- 25+ Research Papers in International Journals
- 20+ Conference Papers
- 4 Technical Books Authored
- Editor of International Journals in Fluid Dynamics and Aerospace Engineering

ACADEMIC LEADERSHIP

- PhD Supervisor with successful completions
- Conducted multiple AICTE-sponsored Faculty Development Programs
- Delivered keynote lectures at prestigious institutions
- Honorary Associate Member of Sigma Xi
- NET Qualified in Mechanical Engineering from CSIR