



# Centre for Research on Start-ups and Risk Financing (CREST)

Indian Institute of Technology Madras

<https://doms.iitm.ac.in/crest/>

Opening for

## Python Backend & Data Science Engineer

### Who are we?

Centre for Research on Start-ups and Risk Financing (**CREST**) has been set up by IIT Madras as one of the **Institute of Eminence (IoE) Research Organisations**, to provide thought leadership and intellectual impact to the start-up and innovation ecosystem. CREST has embarked on an ambitious mission of becoming one of the top global research centres in the area of start-ups and innovation. The core of CREST is the development of an AI-driven Intelligent Information Platform that would enable cutting edge research as well as influence policy and practice like never before

With the recent exponential growth in the start-up and innovation ecosystem, new data-driven approaches would play a critical part in sustaining the current growth curve. The objective of CREST would be to become the gold standard of information and intelligence on Innovation, Entrepreneurship and Private Equity investments in India

### The Opening

We are currently looking for our next passionate, skilled and motivated Python developer, **who can join us immediately**. The candidate should

- Be excited about building a next-generation intelligence platform
- Have a can-do attitude and ready for challenges

- Value working with a great team - confident, creative and thoughtful people who come together to achieve great things
- Be eager to experiment, learn and bring new things, improving the platform
- Be high on self-belief and enthusiasm to work in a startup-like culture - small team, fast-paced work environment

## **If this is you, we're excited to interact!**

### **As the Data Science Engineer in CREST, you will**

- Write reusable code and build libraries for future use
- Have a passion for data engineering and establish solid data-pipelines to automate routine tasks
- Develop & deploy custom Machine Learning (ML) models using the latest research in ML and Natural Language Processing (NLP)
- Build performant applications following best practices, maximizing speed and scalability
- Improve upon the existing codebase mitigating technical debt
- Take ownership of all aspects of the application - architecture, quality and efficiency

### **Requirements**

- Proficient understanding of Python language
- Expertise with data-modelling, data-wrangling & data-mining techniques
- Familiar with Extract-Transform-Load (ETL) processes and hands-on experience with packages like Pandas, Numpy etc
- Experience with data visualisation tools and libraries like Plotly, Seaborn etc
- Good understanding of advanced Statistical and ML techniques on regression, classification, forecasting etc
- Skilled in NLP and specifically ML applications in NLP like information extraction, feature engineering, classification, building language models etc
- Should provide direction and mentorship to junior team members
- Bachelor's or Master's degree from premier educational institutions
- Minimum 2 years of experience (research or professional) in the above-mentioned areas

### **Good to have**

- Comfortable with using Command Line and Linux systems
- Experience and knowledge in version control systems like git, svn, etc
- Knowledge in developing & deploying web apps & web APIs with an overall understanding of client-server interactions
- Experience with NoSQL databases like MongoDB

### **Work location & Job Type**

- Our office is located at **IIT Madras Research Park**, Chennai, Tamil Nadu, surrounded by the beautiful IITM Campus!
- This is a **full-time position** and we'd like you to **relocate** to Chennai
- Initial appointment for 1 year, it would be renewed subsequently based on performance

### **Why work with us?**

- Get to interact with the best of the minds. IIT Madras has been ranked as the top university in India for 5 years in a row
- Be at the forefront of the Entrepreneurial ecosystem in India
- Enormous opportunities for learning

**Interested? Email your resume to: [ic34606@imail.iitm.ac.in](mailto:ic34606@imail.iitm.ac.in)**