

## Senior Software Engineer- Harbinger Group (ML & AI)

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- [GitHub](#) [Portfolio](#)

Versatile Data Scientist with a strong software development background, specializing in application development, configuration, & codebase enhancement. Currently a Senior Software Engineer at Harbinger Group, driving impactful AI/ML projects, accelerating API response time by 80% & implementing innovative solutions like object detection and chatbot development. Proficient in Python, NLP, TensorFlow, CNN, and GPT-3.5, with a demonstrated ability to achieve significant efficiency improvements.

- Python
- ML Algorithms
- Data Manipulation
- Data Visualization
- Cloud Computing
- Big Data
- NLP
- CNN
- GPT 3.5 fine tuning
- UI Path
- Predictive Modelling
- IOT
- GAN
- Reinforcement Learning
- Hyperparameter tuning
- CI/CD Pipeline
- AutoML
- Time Series

- TensorFlow
- MLFlow
- Airflow
- OpenAI Gym
- PyTorch
- Scikit-learn,
- Keras,
- MATLAB
- Docker
- JIRA, ServiceNow

**Senior Software Engineer** | Harbinger Group  
04/2021 - Present

- Accelerated API response time by 80% through the implementation of multithreading techniques, enhancing user query responsiveness.
- Contributed to AI/ML research and development by exploring diverse AI models and crafting Python APIs, leveraging AWS services such as Kendra and Comprehend.
- Spearheaded the development of four impactful projects:
  - Developed an object detection API using YOLOv7, fine-tuned for the detection of custom objects.
  - Designed a resume parser capable of extracting pertinent information and recommending relevant job opportunities.
  - Created a chatbot using AllenNLP, Elasticsearch, and integrated cosine similarity with BERT embedding, resulting in a remarkable 70% accuracy improvement.
  - Developed a pipeline utilizing ChatGPT 3.5 and above, enabling seamless extraction of PHI entities, case-type categories, subcategories, and case summaries from uploaded PDFs of Medical Claim documents. Achieved an 80% enhancement in efficiency, substantially reducing manual workload.

- Develop proof of concepts to evaluate opportunities and solutions, fostering data-driven decision-making and tracking model performance and product success.
- Collaborate closely with various stakeholders to understand customer needs and challenges and translate them into data-driven solutions.
- Apply forecasting, causal inference, and machine learning techniques to address customer problems and meet demands.
- Ensure adherence to ML standards and collaborate with the Platform team for MLOps practices.

**Software Developer |** Extentia Information Technology  
11/2019 - 04/2021

**Application Development and Configuration**

- Developed applications using Pandas for ETL processes. Created APIs utilizing pre-trained models and optimized their performance using multithreading techniques.
- Implemented a chatbot using NLP techniques such as intent recognition, named entity recognition, and dialogue management.
- Engineered an innovative attendance tracking system leveraging computer vision and gesture recognition, enabling contactless attendance marking by waving a hand in front of a webcam.
- Enhanced codebases by revising, modularizing, and updating old code to adhere to modern development standards, resulting in reduced operating costs and improved functionality by ~30%.
- Identified integration issues and vulnerabilities, providing detailed reports and recommendations for Continual service Improvement.
- Established procedures for system monitoring, recovery, backup, and optimization to ensure system stability and Performance.

**Associate IT Applications Specialist|** Symantec Software India Pvt Ltd  
01/2017 - 10/2019

**Career Progression:**

- Commenced my journey as a Master Level Intern in January 2017.
- Achieved promotion to a full-time employee in July 2017.

**Python Automation and Optimization**

- Created Flask and MySQL web dashboards to oversee ServiceNow tickets and server performance, enhancing team efficiency and enabling proactive interventions. Achieved over 30% productivity increase by optimizing SLA management.
- Automated legacy JSON template conversion in Python, improving content management and template consistency across LMS, earning a WOW award.
- Automated the SOX Audit Report with Python, significantly reducing manual efforts during quarterly publishing.
- Successfully conducted a Proof of Concept for Conference Room Monitoring Using IoT technology.
- Implemented Python automation for MYSQL backups, enhancing data reliability and minimizing the risk of data loss.

**PERSONAL  
SKILLS**

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- Problem solving
- Critical Thinking & Time Management
- Decision Making
- Collaboration & Teamwork
- Leadership skills
- Adaptability
- Conflict Resolution
- Innovative

**EDUCATION  
SUMMARY**

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- **EXECUTIVE POSTGRADUATE | ML & AI |** IIITB | NOV 2023
- **MASTER OF COMPUTER APPLICATIONS |** INFORMATION SECURITY | PUNE UNIVERSITY | 2017
- **BACHELOR OF COMPUTER APPLICATIONS |** ADMERIT - AFFILIATED TO SIKKIM MANIPAL UNIVERSITY | 2014

**CERTIFICATIONS**

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- Certified Information Security & Ethical Hacking V8 | March'18
- Agile Project Management

**ACHIEVEMENTS /  
VOLUNTARY /  
PROJECTS**

- Technical Star Award | Harbinger group | May & July23
- Superstar Award | Harbinger Group | June 23
- Team player - Quarterly Award | Harbinger group| Apr-May 23
- Wow Award | Symantec | June 17