Arnab Sen

M.Sc. Data Science
Senior Software Engineer

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Summary

Data Scientist and AI Engineer with expertise in LLMs, automation, machine learning, NLP, OCR, and workflow intelligence. Skilled at building AI-powered systems that improve developer experience, automate complex workflows, and drive operational efficiency.

Experience

Appian — *Senior Software Engineer*
Chennai, India — *Sep 2025 – Present*

- Designed and built an AI-powered Co-Pilot for Appian using Java, SAIL, and LLM reasoning to auto-generate workflows, expressions, and UI components.
- **Skills:** Java, SAIL, Appian BPM, Workflow Automation, LLM Integrations
- **AI Co-Pilot for Appian Development**
  AI assistant that generates SAIL code, validates workflows, automates documentation, and accelerates Appian development using LLM reasoning.

Carelon Global Solutions — *Associate Data Scientist (AI)*
Bangalore, India — *Jul 2022 – Aug 2025*

- Developed an AI-driven OCR–NLP–ML pipeline to automate medical bill processing, reducing manual intervention significantly.
- Built a GPT-4o integrated automated bill submission system delivering **70% faster processing** with improved accuracy.
- Designed a multimodal GPT-Vision system to summarize competitor health insurance plans, reducing **80% manual effort** and making claims processing **95% faster**.
- **Skills:** AWS, NLP, OCR, LangChain, LLMs, SpaCy, ML, Text Mining
- **Python Documentation AI Assistant**
  A Streamlit-based RAG system using Llama-3 to summarize Python documentation. Tools: RAG, Ollama, LangChain, Streamlit, Python

Internship

XKDR Forum — *ML Intern*
Mumbai, India — *Feb 2022 – May 2022*

- Implemented k-fold cross-validation in Julia for ML packages.
- Created comprehensive documentation improving adoption and usability.

NCAER — *Intern*
Remote — *Aug 2021 – Sep 2021*

- Built clustering algorithm for 100k+ caste/subcaste entries, accounting for linguistic variations and reducing unique categories by 50%.

Education

Chennai Mathematical Institute — *M.Sc. Data Science*
Chennai, India — *2020 – 2022 (CGPA: 7.69)*

Presidency University — *B.Sc. Mathematics*
Kolkata, India — *2017 – 2020 (CGPA: 7.00)*

Personal Projects

- **Custom Distance Metric Clustering** *Dec 2021*
  Implemented K-Means supporting custom distance metrics. Tools: Python, sklearn

- **IPL Dashboard (Tableau)** *Jan 2021*
  Created an analytics dashboard visualizing factors influencing match outcomes. Tools: Tableau, Python

Certifications

- Build Projects with LangChain — Udemy

- Understanding LLMs — Udemy

Technical Skills

- **Languages:** Python, Julia, R

- **AI/ML:** NLP, OCR, SpaCy, LangChain, ML, Text Mining

- **Cloud/DB:** AWS, MongoDB, MySQL

- **Coursework:** ML, NLP, Data Mining

- **Interests:** Deep Learning, AI Automation