

# Sancheet Kumar Baidya

Medium | LinkedIn | GitHub | Leetcode

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Location: Kolkata, West Bengal, India

[Portfolio](#)

## WORK EXPERIENCE

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### Synopsys

January 2025 – Now

Senior Research and Development Engineer

Noida

- **Full stack RTL Assistant Integration:** Engineered and integrated backend, frontend, and AI workflows for the RTL Assistant, a generative RTL-based chatbot, ensuring robust and scalable functionality. Delivered tailored customer enhancements, expanding the chatbot's utility and meeting specific client requirements.
- **Orchestrated a major migration of RTL Assistant:** Upgrading from an legacy system to a modern platform that introduced advanced capabilities such as agentic workflows, in-chat editing, and MCP, supported by a redesigned user interface.

### Cimba AI

September 2024 – December 2024

AI Engineer

Kolkata

- **Improved AI workflow efficiency:** Spearheaded the development and implementation of an end-to-end generative AI power prediction service workflow, achieving a 30% improvement in accuracy.
- **Implemented an end to end LLM based evaluation testing pipeline for agentic workflows:** Implemented a LLM-based evaluation pipeline for detecting early failure rates in LLM agents which led to an increased 70% in reliability.

### INTEL Corporation

August 2023 – August 2024

Intern

Bengaluru

- **Achieved Top Recognition in AI Competition:** Developed and implemented an end-to-end generative AI system for inventory management and wiki chatbots. This solution helped customers reduce time spent on tasks by up to 90% and achieve cost savings of 50%. The project was recognized as a top 10 finalist (out of 130+ entries) in the "Applying AI in DCAI" event.
- **Recognized by Intel Leadership:** My AI project garnered recognition from the Vice President and General Manager of Intel's DCAI group (DCPAE), highlighting its potential and innovation.
- **Benchmarking Large Language Models Optimization on Intel Hardware:** Benchmarked large language model (LLM) inference and fine-tuning performance on Intel Xeon AI cluster nodes. Evaluation included Intel Neural Chat and other LLMs, with comparative analysis against competing platforms.
- **EVF Console Development:** Took the lead in the end to end development of 4 out of 10 Python-based microservices and made significant contributions to the remaining ones that power the EVF Console, a data-center management console built on Intel Cloud Foundry. My work included features like chatbots, telemetry, analytics and more. This involved connecting front-end, back-end, and scripting components to create a smooth and intuitive user experience.

## TECHNICAL SKILLS

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**Programming** : Python, C++, JavaScript, HTML, CSS, React.

**Libraries** : LangChain, Autogen, Agent Development Kit, FastAPI, Transformer , PyTorch , TensorFlow , Pandas, Matplotlib, Seaborn, Numpy, Scikit-Learn, NLTK, Streamlit, OpenMP, OpenCV , PyTest.

**Databases** : MongoDB, MySQL, ElasticSearch, Prometheus, Vector DB ( Chroma DB ) .

**DevOps Tools** : Git, Amazon Web Services, Google Cloud , GitHub Actions, Docker, Ansible, Kubernetes ,Shell Scripting, Linux.

**Other Tools** : Tableau, Intel Optimization Libraries (OneAPI, OpenVino, IPEX), openBMC, IPMI, Redfish, Postman, REST APIs, Apache Hadoop and Spark, Snowflake .

**Course Work** : Statistics, Data Visualization, Data Analytics, Machine Learning, Deep Learning, Text and Speech Analytics, Data Structures and Algorithms.

**Development Methodology** : Agile, Scrum, Test-driven development (TDD).

**Languages** : English, Hindi, Bengali.

## EDUCATION

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**Vellore Institute of Technology**

*Master of Technology in Big Data Analytics*

CGPA: 9.31

September 2022 – July 2024

**University of Hyderabad**

*Diploma in Artificial Intelligence and Machine Learning*

CGPA: 7.1

June 2021 – July 2022

**Techno India(MAKAUT)**

*Bachelor of Technology in Electrical Engineering*

CGPA: 7.79

August 2016 – July 2020

**BDM International School**

*All India Senior School Certificate Examination(CBSE)*

Percentage: 84

June 2014 – April 2016

## PROJECTS

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**AI Catalog**

[Source Code](#)

- AI Catalog offers a personalized generative AI chatbot experience tailored to users' specific needs.
- Leverages a microservices architecture for flexibility and scalability.
- Deployed on Google Cloud: <https://ai-catalog-sancheet-jseg7i727q-el.a.run.app>.

**Movie Recommendation System**

[Source Code](#)

- Designed and developed a recommendation system based on TMDB dataset.
- Recommends five movies based on the users choice of selected movie.
- Deployed on Google Cloud: <https://movie-rs-sancheet-jseg7i727q-el.a.run.app>.

**Car Price Prediction**

[Source Code](#)

- Designed and developed a model to predict used Indian car prices.
- The project is deployed using heroku in the following link: <https://car-sancheet.herokuapp.com/>.

## CERTIFICATIONS

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- [Google Data Analytics Professional Certificate](#)
- [Certificate Of Excellence in Data Structures and Algorithms with Python](#)

## VOLUNTEERING

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**The Pankh Foundation**

*NGO Worker*

June 2018 – January 2020

*Kolkata*

- Providing food and study material for underprivileged children and disaster relief material for cyclone affected areas