



Integra Micro Systems (P) Ltd.

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Mahesh Kumar Jain (IIT-Kanpur, IISc Bangalore)

Chairman Integra Micro Systems and subsidiaries (Bot Ai MI Private Limited, IMSS, i25)

Work Experience Certificate

Mr. Animikh Roy has been engaged with Integra and its subsidiary Bot AI ML Private Limited since **May 2019** as an **AI Consultant** and a **Senior Lead in R&D** for team building, leading projects, managing software-products and training team members on the Mathematics and Computer Logic of Machine Learning and Neural Networks in the domains of Computer Vision and Natural Language Processing.

Due to his strong background in STEM oriented research, Mr. Animikh started teaching, training and team-building with programmers in AI & ML for advanced applications on using Deep Learning and Neural Networks in Natural Language Processing Projects involving Chatbots & Virtual Assistants. Eventually, he was assigned to work with our senior consultant Dr Ravi Cheruvu, (a pioneering expert in NLP with a PhD from IIT Chennai and a visiting scientist at *Carnegie-Mellon University*) to build a Knowledge-Bot with auto web/document scraping capabilities and advanced Ontology driven Semantic NLP. Mr. Animikh was designated as the Product Manager for KnowledgeBot and led a team of backend engineers & frontend UI/UX developers at Bot AI ML since August 2019.

The KnowledgeBOT initially used NLP search techniques to get answers from a set of documents or webpages. It was later enhanced to access databases which resulted in Mr. Animikh's contributions towards building an automated pipeline of NLP to SQL and SQL to NLG. This product was named Hermes and it integrated various advanced technologies such Big-Data Analytics (BIRD), video-conferencing (Zoom), unstructured document processing & RPA (DocuBot), and Power-BI. The application was focused as a Universal Virtual Assistant for various departments and domains of Industry 4.0. The development of this project/product has been completed on 1st Sept 2021. The work done by Mr. Animikh displayed his capability of original thinking and was significantly ahead of its time.

My observations on Mr. Animikh are based on my interactions with him over our association of **28 months**. I have been associated with this project on the basis of fortnightly reviews of the development along with *Dr V Sudhakar (IIT-KGP, PhD IISc Bangalore)* *Dr Ravi Cheruvu (PhD IIT-Chennai)*, and *Mr Jyoti Sahai (IIT Kanpur)* and a former CEO of our subsidiary and now a group consultant to Integra. My evaluation of Mr. Animikh's work in association with the rest are as follows:

- Ability to learn any new subject/domain in science or technology – **Extraordinary**
- Problem Analysis & Solving Ability – **Excellent**
- Project Management - focus on work and dividing a complex problem into tasks, assigning them with clarity and follow-up for completion – **Excellent**
- Articulation skills - creating a story and demonstration – **Extraordinary**
- Business customer requirement understanding & transforming to Product Management – **Above Average**
- Availability for work and commitment to time/date - **Almost Always on Time**
- Appetite and aptitude for learning, ability to absorb information – **Enormous & Remarkable**
- Mathematical and research abilities in STEM – **Remarkable & Extraordinary (top 1%)**



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Integra has been a prominent software company for more than 40 years with thousands of employees over the decades. However, I would place Mr. Animikh in the top 5 among all developers & researchers that I have come across. His sincerity and commitment to work is also extraordinary, to the extent that his severe neurological condition of episodic cluster headaches (occurring once a year) is not able to challenge his cognitive abilities, enthusiasm & self-commitment to achieve something big, something innovative, and to invent something new. I am confident that he will succeed in his pursuit of science and technology while inventing new paradigms in our understanding of the Universe. He has the ability to work and contribute in pushing boundaries of research at the best and most competitive Universities in the world.

Mahesh Jain

Signed through jSign
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