Report of the webinar organized by Macfast Corporate Relations on the topic "Career Opportunity in Artificial Intelligence and Machine Learning"

Macfast Corporate Relations organized a webinar through Zoom platform on the topic **"Career Opportunity in Artificial Intelligence and Machine Learning"** on 17th March 2021 from 12.00 pm to 01.00 pm. The webinar was lead by **Dr. Santosh Kumar Nanda, Vice President of Artificial Intelligence Services, Techversant.** The students of MBA, MCA and School of Bio science attended the webinar. A count of 276 participants attended the webinar.

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Webinar on

Career Opportunity in Artificial Intelligence and Machine Learning for MBA, MCA & MSc. Students

17th March 2021 | 12:00 P.M - 1:00 P.M

Dr. Santosh Kumar Nanda,
Vice President of Artificial Intelligence Services ,
Techversant

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Top Skills

Software Development
Artificial Intelligence
Machine Learning

Honors-Awards

Young Researcher Member

Publications

Journal

Comparing Functional Link Artificial
Neural Network And Multilayer Feed
forward Neural Network Model To
Forecast Crude Oil Prices

Digital Image Texture Classification
and Detection Using Radon
Transform

Discrete Cosine Transform Matrix
Based SLM Algorithm for OFDM with
Diminished PAPR for M-PSK over
Different Subcarriers

Fuzzy inference system based noise
prediction models for opencast
mines

Dr. Santosh Kumar Nanda

Vice President of Artificial Intelligence Services at Techversant
Thiruvananthapuram Taluk

Summary

PhD (AI, ML Domain) from National Institute of Technology,
Rourkela.

Research interests are :
Soft Computing, Machine Learning,
Artificial Intelligence,
Image Processing,
Prediction Methodologies (Regression, Statistics),
Mathematical modelling,
Pattern Recognition.

12 yr of experience on Algorithm development into Machine
Learning/Artificial Intelligence, Moving object Tracking, Multi
Sensor Data Fusion, Image Processing, Prediction Methodologies.
Have expertise in Decision Support System , Expert System,
Deep Learning, Quantum Machine Learning. Have Experience
in software development i.e. Requirement gathering, Design,
Coding, Integration, testing and documentation at both system level.
Experience in Framework Design. Developing Web Application using
Python Django, Mongo DB, Amazon AWS. Developed Desktop
Application using Python and QT. Developing Mobile Application
using Python Kavy.

Have industrial management experience in parallel with research
and technical responsibilities. Team Making, Client Interaction/
presentation,

Publish more than 55 research articles in reputed International
Journals and International conferences etc.

Editor in Chief of prestigious journals (Scopus and ISI Indexing)

Editor in Chief of International Journal of Artificial Intelligence,
(Ansinet, USA)

Editorial Member:

International Journal of Computer Application (IJCA),
International Journal of Advancements in Computing Technology
(IJACT, South -korea),
International Journal of Computer Applications (IJCA, Acta Press,
USA).
International Journal of Open Problems in Computer Science and
Mathematics (IJOPCM, UAE).

In 2014, he was selected as a Member in World federation of Soft
Computing.

Experience

Techversant
1 year 2 months

Vice President of Artificial Intelligence Services
October 2020 - Present (6 months)
Thiruvananthapuram, Kerala, India

Developing Solution in AI and ML Domain

Active in AI business in Sentiment Analysis, Deep Learning

Speech Recognition, Speech based Sentiment analysis

Object Detection. Developed Solution (ML and AI) with 90-95% accuracy rate

Head of Artificial Intelligence and Data Science
February 2020 - October 2020 (9 months)
Trivandrum, Kerala

Managed AI, Data Science and Machine Learning Projects. Leading AI
projects.
Formulating and implementing
Agile Project Management in AI framework to bring efficiency and accuracy
in project execution Developing architecture roadmap for next generation
Artificial Intelligence solutions for clients Executing Proof of Concept to assess
the value of Artificial Intelligence use cases
Architecting modern Artificial Intelligence solutions using virtual agents, visual
analytics, deep learning Researching and implementing methodologies to
measure the impact of the technologies

Trivand Technologies
Lead AI Architect (Head Data Scientist)
April 2019 - October 2019 (7 months)
Trivandrum

Managing the delivery of the IT strategy and road-map to align the IT function with Artificial
Intelligence architectures to a successful overall business strategy and objectives.

Planning and Implement agile project management in AI framework to bring efficiently and accuracy
in project execution.

Actively participate in challenging software and hardware research projects focused at applying combination of Deep Learning, Natural Language Processing and Knowledge Representation pipelines to design, analysis and engineering workflows for real world problems in Insurance Domain

Building and implementing architecture road-maps for next generation Artificial Intelligence solutions
for our clients

Executing proof of concepts to assess the value of Artificial Intelligence use cases

Developing Web-based Solution and GUI for AI based Solutions

Architect modern Artificial Intelligence solutions using virtual agents, visual analytics, deep learning

Use machine learning and statistical modeling techniques to develop and evaluate algorithms to
improve performance, quality, data management and accuracy

Assist the implementation and deployment of systems used for natural language input and processing,
data collection, machine learning model training, and deployment of machine learning models

Leading the Quality Management Service in AI based IT products (Desktop, Web Application, Mobile
App) and IT Governance

Leading the AI based Software Testing Practice to ensure defects free software product and increase
customer satisfaction

Leading AI based IT product budget preparation as well as facilitating and monitoring its expenditure

Developed Deep Learning based Image Processing Application for Insurance Industries

Developed Desktop Application (Python and QT Frame work) with deployment of Deep Learning
based Image Processing Applications

Experienced in Pyspark, Python, R, MATLAB, NLTK, TF, Keras, Scikit learn, CV2, PIL, AWS, Google Colab.

Flytxt
Assistant General Manager(Lead Data Scientist) (Analytics Center of Excellence-R & D)
June 2018 - April 2019 (11 months)
Trivandrum

Managing Data Science and Machine Learning Projects
Develop AI, Expert System, Decision Support System, Machine Learning,
Deep Learning Based Models
Active in IPR (Patent) and Develop New Robust Neural Network Architecture
Heading a team of Data Scientists and Data Engineers
Leading a Team of Data Scientists, Data Engineers and Business Analysts
Working on AI Use Cases for Banking Industry
Automating Business Processes using AI
Project Management
Work on client projects.
Build a team of Data Scientists and Data Engineers.
Active in PoC and Build Business model

WESEE, Ministry of Defence

Senior Software Engineer
February 2017 - June 2018 (1 year 5 months)
New Delhi Area, India

Senior Software Engineer in Govt. R & D Agency, New Delhi

• Involved in Data Science based Algorithm Design (Wilcoxon Machine Learning based Functional Link
Artificial Neural Network)
• Develop Multi Sensor Data Fusion Algorithm.
• Active in Software Development.
• Design Expert System, Machine Learning, Deep Learning based Framework .
• Active in Developing Software using Python
• Developed Decision Support System based Software Solution
• Data Collection from Sensors (Through Ethernet (UDP, Serial Port), Multi-threading programming)
• Data Correlation using Nearest Neighbor Algorithm, K-Mean and Joint Probability Distribution
• Real-time forecasting algorithm , Kalman-Filter, EKF, IIM Filter to predict next position with time
• Data Fusion Algorithm (Track-to-Track)
• Expert System, Machine Learning Algorithm for threat Evaluation
• Multi Criteria Decision Making System for Development of Decision Support System
• Programming with Python/Matlab/R/Octave
• Data-Base: Postgre-SQL , Redis

Eastern Academy of Science and Technology (EAST), Phulnakhara
Director (Center of Research, Development and Consultancy)
August 2010 - February 2017 (6 years 7 months)
Bhubaneswar

• Involved in many complex data science, machine learning projects (Crude Oil Price Prediction, Water
Quality Prediction, Increased Revenue in Education Sector, Weather Prediction, GUI based Machin-
ery Noise Prediction...)
• Involved in various artificial intelligence and machine learning projects (Govt./ Pvt)
• Developed various machine learning based financial model with international collaboration (Tunisia)

- Developed cascaded fuzzy inference model for water quality prediction
- Developed statistical based regression model for opencast mining
- Developed machine learning based robotics application
- Developed artificial intelligence/machine learning based forecast model for rain fall prediction in India
- Developed high level machine learning model for air quality prediction model
- Developed robust genetic algorithm based optimized drug designed for Diabetic patients
- Developed hybrid machine learning based noise induced hearing loss model for opencast miners.

Synergy Institute of Technology (SIT), Pahala, Bhubaneswar
Asst. Professor
July 2009 - July 2010 (1 year 1 month)
Bhubaneswar

- Active in Research and Development in AI, Machine Learning and Computational Intelligence
- Conducting Workshop, Seminars in the field of AI and Machine Learning
- Conducting International Conferences in the field of AI and Machine Learning
- Writing Research Articles and Research Proposals
- Conducting Employee Development and Training Programs

NIT -Rourklea
Research Scholar
July 2004 - June 2009 (5 years)
Rourkela, Orissa, India

Education

National Institute of Technology Rourkela
Doctor of Philosophy - PhD, Artificial Intelligence, Machine Learning, Computational Intelligence · (2004 - 2012)

National Institute of Technology Rourkela
Master of Science in Applied Physics, Engineering Physics/Applied Physics · (2002 - 2004)

Utkal University
Bachelor of Applied Science - BASc, Physics · (1999 - 2002)

Talcher Thermal High School