

Contact

anupambitspilani@gmail.com

www.linkedin.com/in/anupamisb
(LinkedIn)

www.amazon.science/author/
anupam-purwar (Company)

Top Skills

Python (Programming Language)

Machine Learning

Matlab

Languages

German (Elementary)

Hindi (Full Professional)

Russian (Elementary)

English (Full Professional)

Certifications

ASME : Finite Element Analysis

How Google does Machine Learning

Creating Value through Marketplace
Insights

edX Verified Certificate for
Leadership for Engineers

Sequence Models for Time Series
and Natural Language Processing

Honors-Awards

Course Topper in Product Design
Course in BITS-Pilani, 2012

Course Topper in Sustainable
Manufacturing Course in BITS-Pilani,
2012

Tech Bazaar, 2012

SCRTEEE-2012, IEEE Conference

Course Topper in Nano Science
Course in BITS-Pilani, 2011

Publications

Life Cycle Assessment of Lathe
Processes for training application

Anupam Purwar

Senior Research Scientist @ Amazon | ISB | IISc | BITS Pilani
Bengaluru, Karnataka, India

Summary

A seasoned professional with experience across data analytics, Machine Learning, Strategic Planning, Product Management, Industrial design and Operations. Experienced in leading large multi-functional teams and driving double-digit growth through R&D initiatives. Executed product development from conceptualization to prototyping. Looking forward to solving challenging problems through multi-stakeholder engagement, technology, and leadership.

Authored articles pertaining to Machine Learning, IoT, Data analytics with 200+ citations and published by IEEE /Springer. Also, a certified ML professional with 8 certifications from Google and AWS.

Experience

Amazon

4 years 4 months

Senior Research Scientist

April 2023 - Present (5 months)

I am part of the Science team which provides business and operational insights to Amazon FCs across North America and Europe. I consume real time data from the Amazon facilities and utilize Machine learning/Optimization techniques to enable day to day decision making related to operation and maintenance of these facilities. I work with a team of Business analysts and leaders to gather and convert business requirements into technical requirements. Having access to volumes of data helps me use ML techniques to identify patterns in the data, generate insights to solve the business problems. I have a hands on approach with hard coding: Python, MATLAB and data engineering skills. I am adept at building ML models right from data pipe to feature engineering and training to deployment of ML models.

Research Scientist

February 2021 - March 2023 (2 years 2 months)

Business Intelligence Engineer

ARIMAX model for forecasting maintenance work (AMFM): A multi-stage seasonal ARIMAX model for work order time series forecasting

Customer experience management in Food and Beverage outlet at Indian School of Business: Methodology and recommendations

Experimental and computational analysis for thermo-erosive stability assessment of ZrB₂-SiC based multiphase composites

INTELLIGENT CONTROL OF ELECTRIC LAMP

June 2020 - January 2021 (8 months)

Bengaluru, Karnataka, India

I am part of the Analytics team which provides business and operational insights to Amazon facilities across the globe.

Operations Manager

May 2019 - May 2020 (1 year 1 month)

Bengaluru Area, India

My work pertains to design and optimization of logistics network at India region level. I utilize real time data of demand as well as from forecasts to plan deployment of fleet capacity across multiple corridors viz. roadways and railways. For easier consumption of data, I utilize analytical tools and also develop them using Python and R to automate the decision making process.

Besides, I am also developing Amazon's rail network for pan India movement. It's a unique programme involving management of various stakeholders including GoI, Indian Railways. I am setting up the processes, SOPs and building teams across India to handle e-commerce shipments over railway transport mode.

To drive up efficiencies and reduce TAT of Amazon's Rail Transport Network, I am spearheading development of tech viz. datapipe, dashboards using AWS and leveraging open source libraries to empower managerial decision making.

ISBAA Hyd Chapter

Chapter Leader

September 2020 - Present (3 years)

Hyderabad, Telangana, India

Indian School of Business

1 year 1 month

Director, Operations and Sustainability Council

May 2018 - April 2019 (1 year)

Hyderabad Area, India

MBA in Finance and Information Systems (3.66/4)

MBA Graduate Student

April 2018 - April 2019 (1 year 1 month)

Hyderabad Area, India

Currently, I also lead the Operations and Sustainability Council at Indian School of Business as its elected head by the 600 strong ISB student community, which votes annually for posts of Graduate Student Board.

Indian Institute of Science

4 years

Research Scientist

January 2014 - December 2017 (4 years)

Bengaluru Area, India

Project Management, Strategic Planning, Procurement and Vendor management, Structural Design, Finite Element Analyst and High Temperature Materials Development

Event Organizer

September 2015 - December 2015 (4 months)

Indian Institute of Science, Bangalore, India

Workshop on Ultra High Temperature Ceramics for Thermo-structural Applications

BrahMos Aerospace

3 years 10 months

Senior System Engineer

January 2017 - October 2017 (10 months)

Bangalore

Aerospace system design and testing.

Systems Engineer

January 2014 - December 2016 (3 years)

Bangalore

Aerospace system design and testing.

GE

EID Intern

January 2013 - June 2013 (6 months)

JFWTC, Bangalore

Birla Institute of Technology and Science, Pilani

Co-Founder and Senior Advisor, IEEE BITS Pilani Chapter

August 2012 - June 2013 (11 months)

Pilani

Co-founded IEEE BITS Pilani Chapter, built an executive team of 20 students, 2 professors and mentored juniors in leadership roles. Also, organized a drive to induct 30+ members to Chapter through IEEE membership, guest lectures by experts and workshops.

Indian Institute of Technology, Bombay

Research Fellow, Indian Academy of Sciences at Department of Aerospace

May 2012 - July 2012 (3 months)

Analysis of Flight Dynamics of UAV and

Design of onboard Flight Control System

Birla Institute of Technology and Science, Pilani

Secretary, Mechanical Engineering Association

May 2011 - May 2012 (1 year 1 month)

Pilani, India

Organized Guest Lectures, Industry visits, conference, technical workshops, technical festival, intra and inter college events for students. I managed a student body comprising all Mechanical Engineering students at BITS Pilani

Nuclear Power Corporation of India Limited

Engineering Intern

May 2011 - July 2011 (3 months)

Tarapur, Mumbai area

I worked on structural analysis of Steam Generator Blow Down Valve and Heat Exchanger design for Reactor Cooling unit of Tarapur Atomic Power Station by applying my knowledge of Finite Element Analysis and heat transfer.

Education

Indian School of Business

Master of Business Administration - MBA, Information Systems and Finance · (2018 - 2019)

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering (Honours), Mechanical Engineering · (July 2009 - June 2013)

Defense Institute of Advanced Technology (DIAT), DU, DRDO

Specialized Course on Aerospace Technology and Space
Systems- Aerospace Engineering, Aircraft and Space Systems
Technology · (2013 - 2013)