

# Anupam Purwar



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## Experience



### Senior Research Scientist

Amazon

May 2019 - Present (4 years 4 months)



### Research Scientist

Indian Institute of Science (IISc)

Jan 2014 - Dec 2017 (4 years)



### Senior System Engineer

BrahMos Aerospace

Jul 2013 - Dec 2016 (3 years 6 months)



### Engineer Intern

GE

Jan 2013 - Jun 2013 (6 months)



### Researcher

Indian Academy of Sciences

May 2012 - Jul 2012 (3 months)



### Engineer Intern

May 2011 - Jul 2011 (3 months)

, Tarapur Atomic Power Station, Boisar, Mumbai

III. Research Projects:

- Amazon Global Fulfillment: Development of Large Language Model based chat bot  
Leading development of technical architecture and augmented learning based language model (LLM) for retrieval Q&A and chain of thought questions, create metric to benchmark open source LLM performance
- Amazon Global Fulfillment: Development of Non-Linear Optimization Model (1 Patent in progress)  
Leading development of recommendation engine which solves nonlinear multi objective problem using Optimization and built the service to solve this NP-hard problem using parallel processing

- Amazon Global Fulfillment: Development of Labour Planning Model (1 research paper)  
Developed a non-linear optimization based technical product for Amazon facilities across North America and Europe to automate the planning of work at a site and network level with adoption across multiple orgs
- Amazon Science: Maintenance Work Forecasting (1 research paper)  
Developed multiple ARIMA, Deep-AR based forecasting model for Amazon facilities across North America to predict the maintenance work hours with adoption across 1000+ sites within 1 month of launch
- Amazon Global Fulfillment: Development of Natural Language Processing based classifier  
Developed a deep learning based classifier to analyze the feedback created by Amazon employees in facilities across North America to automate the interpretation of employee sentiment
- Amazon Web Services: Internal Consultant to AWS for building science based products/solutions
- Indian School of Business: Development of Machine Learning based Forensic Auditing Tool  
Developed a technical product for analyzing Financial statements/annual reports of Firms using Natural Language Processing and ML-based techniques for Chief Economic Advisor, Govt. of India
- Development of Ultra High Temperature Ceramics for Hypersonic Vehicles; sponsored by Center for Excellence in Hypersonic, Govt. of India, Grant amount: 344 lakhs.; - Developed a new ceramic-metal composite with a melting point of 3000 deg C and reduced its material discovery time by from 10 years to 2 years by using Deep learning based techniques  
- Characterized the novel ultra high temperature ceramic-metal composite using Arc Jet Testing and high temperature Erosion facility in collaboration with ISRO, IIT-Kanpur and IIT-Roorkee

## Education



### Indian School of Business

MBA (Post graduate, Finance and Information Systems)



### Birla Institute of Technology and Science, Pilani

Bachelor of Engineering, Mechanical Engineering

## Skills

ar • auditing • automate • c • consulting • financial statements • forecasting • interpretation •  
llm • natural language processing