

Animesh Kumar

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SKILLS

Languages: Python, TypeScript, JavaScript, C#, SQL

AI and ML: PyTorch, LLM inference and serving, retrieval and attribution, model quantization, evaluation

Backend: Node.js, .NET, MVC, REST APIs, Redis, Elasticsearch

Data and Cloud: AWS, Azure SQL Database, Databricks, elastic pools, Key Vault, Blob Storage, Power BI

Frontend: React, AngularJS

EXPERIENCE

Adobe — Noida, India

Mar 2021 – Present

Computer Scientist II (SDE3)

Jan 2025 – Present

- Lead attribution for document question answering in Acrobat AI Assistant, decomposing generated answers into tokens and mapping them to source document spans through LLM hidden-state similarity, so every claim traces back to the passage it came from
- Extended attribution to contract documents, where an entity-level answer has to cite the clause supporting it, and shipped it as color-coded, clickable spans inside the PDF rather than a trailing list of sources
- Filed 2 patents in 18 months on contextual entity attribution and generative document summarization, both directed at features shipping in Adobe Acrobat

Computer Scientist I (SDE2)

Aug 2022 – Dec 2024

- Scaled Acrobat AI Assistant from launch to 10M+ users, shipping document question answering, summarization and conversational PDF reading across multiple languages
- Built a configurable fine-grained attribution pipeline combining retrieval with atomic-fact scoring, improving precision and recall of sourced passages over a single-retriever baseline

Member of Technical Staff II

Mar 2021 – Jul 2022

- Built an ML model optimization framework for moving research models into Document Cloud products, applying quantization, batching and serving changes against a fixed quality bar
- Cut inference time 43.5% and serving cost 52%, making several downstream document AI features viable in production

Technologies: Python, PyTorch, LLM inference, AWS, React, Node.js

MAQ Software (Microsoft) — Hyderabad, India

Sept 2018 – Feb 2021

Software Engineer II

Mar 2020 – Feb 2021

- Led 5 engineers on the Azure data platform behind Microsoft's reporting stack, owning architecture across Azure SQL Database, Databricks, elastic pools and Elasticsearch
- Cut cloud spend 35% while holding 99.99% reliability, right-sizing elastic pools and tuning Azure SQL until the Power BI reports built on it were fast enough for daily use

Software Engineer I

Sept 2018 – Feb 2020

- Migrated an on-premise SQL database to Azure and designed the surrounding cloud architecture, with Redis, Blob Storage and Key Vault under the application layer
- Built the web application layer with .NET MVC, AngularJS, TypeScript and the Power BI API, embedding reports directly into the internal portal
- Implemented a distributed logging system across services, reducing deployment time 50%

Technologies: C#, .NET, Azure SQL, Databricks, Power BI, TypeScript

PATENTS

3 US patents pending, all as first inventor

Improving contextual entity attribution using LLM hidden states *P13667-US* Filed Feb 2025

Attributes entity-level answers back to the contract clause they came from, using LLM hidden states and cosine similarity. Ships in Adobe Acrobat

Intelligent document summarization using generative AI *P13892-US* Filed June 2024

Hierarchical attention over document structure, adapting summary length and focus to reader intent

Fine-grained attribution for document question answering *1062P12405US* Filed Dec 2023

Configurable retrieval and attribution pipeline producing inline citations, with fact-level relevance scoring. First inventor of 14 on an Adobe Research collaboration

PROJECTS

GoWeekender — goweekender.in **Side project**

- Building a travel-matching platform for weekend trips in India, pairing travelers on adventure style, budget and pace, with government-ID verification for every member
- Built the safety layer — women-only tribes, live SOS and Ghost Mode — alongside in-app chat, itinerary planning and split payments
- Supports 3 travel modes: solo with safety checks, self-planned groups, and host-led escapes; iOS and Android apps in development, free to use
- Grew a founding-member waitlist past 900 ahead of launch

EDUCATION

SJB Institute of Technology, Bangalore **2018**

B.Tech, Computer Science and Engineering. Graduated first class, specializing in machine learning and backend development

Founded the campus Linux enthusiasts club · Led the college quiz team through inter-college competition

AWARDS

Adobe Impact Award for technical excellence, Document Cloud (2023) · 4 Technical Excellence Awards across Adobe and MAQ Software (2018 – 2025) · Rank 3, NASSCOM Smart City Hackathon, NMIT region (2017)