Ankit Khare

Seattle, Washington (open to relocation)

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Career Objective: *(i) Become a liaison between an organization and its developer communities to help derive the best value from their product(s).*

Skills

Interpersonal Skills	Outstanding verbal communication skills, strategic thinking, entrepreneurial mindset, proven experience forming strategic alliances and building partnerships, proven experience of working cross-functionally, strong writing ability, proven ability to express complex ideas in simple terms, collaborative attitude, strong work ethic, acuity for quickly acquiring product knowledge and clearly expressing it to diverse audiences, excellent technical writing skills with cognizance to audience, appreciation for and attention to details, deep empathy for data science personas
Software Technologies	Python, RestAPI, Git, Scikit-Learn, PyTorch, FastAI, Pandas, NumPy, SciPy, SQL
Deep Learning and AI	Solid understanding of Deep Learning and MLOPs, strong background in Deep Learning ecosystems and technologies, understanding of challenges in operationalizing ML projects, and knowledge of end-to-end ML life-cycle in production

Career Summary

Head of Content and Developer Relations
Abacus.AI (Formerly RealityEngines.AI)

Developer Advocacy / Content Creation / Product Design & Management — *May 2019 - Present*

- **Collaborated with VP of Product and CEO** to lay a **roadmap** of building **Vision and NLP verticals** at Abacus.AI
- **Plan, strategize, and execute workshops**: (i) to enhance community engagement with Abacus.AI product, (ii) to create product awareness, (iii) to teach AI/ML practitioners/enthusiasts about AI-assisted data science, (iv) to demonstrate how to use end-to-end MLOps platform, & (iv) share views on latest AI advancements and trends
- Define and execute **strategies to create audience base** for workshops
- Provide product training to existing customers and formulate **strategies** to get **maximum market exposure**
- **Map product collaboration opportunities** with product, technical, and sales team
- **Collaborate** with product managers, engineers, and researchers to lay out a **roadmap for new use-cases/solutions/verticals** based on factors like current market conditions, runway, competition, etc.
- Handle **customer enablement sessions** and organize **product demos** for potential customers
- Create **use-case tutorial videos**, record and edit demo sessions for potential customers, and **create shorts** on product features and capabilities e.g., **Abacus AI Recommendation Engine Demo**
- **Publish monthly newsletter** that reaches to 5500+ people
- Wrote **initial How-to guides, API reference, Getting Started tutorials, Data Wrangling guides, and Use Case tutorials** for Abacus.AI's Documentation Center and managing technical content writers to keep them updated
- Created **designs for the doc-center** screens which also inspired in-product design changes for the entire product
- Engineered and **shipped the entire blog stack** end-to-end on Abacus.AI's cloud infrastructure
- Drove the Model Showcase effort to completion by **training and publishing 20 Deep Learning-based models using their product**
- Design and write **in-product contextual help** for making Abacus.AI's **product more intuitive**
- **Published articles** on company culture, user-success stories, ML concepts, and AI/ML technologies
- **Reporting to the CEO and working with**: UI Developers; back-end developers; designers; cloud specialists; technical writers; and interns; to effectively and efficiently carry out the documentation, workshops, newsletter, blog, YouTube, and API related development and management

Research Assistant
UT-Arlington LEARN Lab

Image Caption Generation using encoder-decoder-based architectures — *Sep. 2017 - May 2019*

- Approached image captioning in a novel way where **human-like captions with better collocations and contextual inferences** were observed. The **state-of-the-art model** (1GB size) took 48 hours to train using 2 **NVIDIA P100 GPUs in parallel** on GCP outperforming existing SOAs by significant margin (3.7%)
- Developed a **deep learning-based parking tracker** prototype and published tutorials on it

Deep Learning, Research Intern
Third Insight Inc.

Visual Scene Understanding — *July 2019 - Sep. 2019*

- Trained deep learning-based models on manually created raw data image crops for automatic aircraft inspection. Researched joint parsing modular computer vision systems for visual scene understanding

Software Engineer *Nagarro Software Pvt. Ltd.*

WEB DEVELOPMENT *Apr. 2014 - Feb. 2016*

- Handled **data analysis and data querying** in **multiple projects: "Ecova" and "Syntona Finac"** due to quick learning and correctness in writing clean code using technologies like C#, SQL, and knockout JS. Contributed as a team player following **Agile (Scrum) methodology**
- One of the 3 students out of 6000 students in joint-campus drive to get an offer. Impressed by **my technical, quant, and analytical scores**, Nagarro organized an on-campus hiring drive in my university
- Received 85% appraisal at the end of 1st year of job with a title of the **star performer among Junior Associates** in Technology

Work Samples

Workshops, Docs, Videos, & Blogs *Head of Content at Abacus.AI*

- **Published articles** on: Abacus use-cases and product features; meta-learning; and deep learning (GANNs, autoencoders, etc.). Abacus.AI blog link - **https://blog.abacus.ai**
- **Live YouTube webinar** on **Learn to Train End-to-End Deep-Learning Based Predictive Models Using Abacus.AI!**
- Hosted **live YouTube webinar** on **Learn to build an end-to-end deep recommender system using Abacus.AI** in collaboration with Head of Research and team-mate Colin White
- Webinar titled: **Efficient Data Manipulation for Deep Learning Models using Abacus.AI.** Please refer **part 1** and **part 2** of the 2 hours webinar
- Workshop on **Explanations and ML Pipelines - ML in Production**
- Workshop on **Develop Customized Neural Nets - Forecasting and Predictive Modeling**
- YouTube Live Stream on **Explainability and bias in Neural Nets**
- Contributed 80% of the content in the Doc-center: **https://abacus.ai/app/help/overview**
- Wrote **API Python Client Tutorials: https://abacus.ai/help/tutorials**
- Contributed towards **Documentation Center's layout and design**
- Wrote **in-product contextual help** (e.g., feature docs, metric explanations, UI capabilities descriptions, etc.), data wrangling docs, and connect external services (aws, gcp, snowflake, etc.,) usage guides. **In-product contextual help sample** - **Dataset Schema UI Snapshot**

Content Samples on YouTube *UT-Arlington*

- Watch a **7 minute Video Portfolio** to know me and my creativity
- **Easy Street Parking using Computer Vision** - a comprehensive tutorial created during research assistantship in LEARN lab at UT-Arlington
- **Automatic Parking Management** - a project undertaken during computer vision course as part of master's degree
- A video on **Machine learning is Everywhere** - a video created as a part of software engineering class presentation
- YouTube **Channel Intro** - intro video for my own YouTube channel

Publication

Show, Infer and Tell: Contextual Inference for Creative Captioning *Best Student Paper Runner-up*

VISION + LANGUAGE AND DEEP LEARNING *Presented in ORAL Session BMVC 2019*

- Received **Best Student Paper Award Honourable Mention.** Declared as **one of the Top 3 Papers out of more than 1000 submissions** in BMVC 2019 held at Cardiff, Wales, UK after getting selected for ORAL presentation (Acceptance Rate 4.6% with only 38 oral presentations). Paper can be found **here**. For further details, please check **Oral presentation video**
- The beauty of the work lies in the way it architects the fundamental idea that humans look at the overall image and then individual pieces of it while captioning it. **Outperformed state-of-the-art Bottom-up captioner** improving significantly in every metric on MSCOCO Karpathy split

Abstracting Traversability to Plan the Path Better and Faster *ICPR 2020*

PATH PLANNING AND DEEP LEARNING

- **CNNs** have never been used for finding **directional probability** from grid maps. This work demonstrates how such traversability maps can be used by RRT to plan paths faster with optimum accuracy

Education

The University of Texas at Arlington *Arlington, Tx, USA*

M.S. IN COMPUTER SCIENCE (RESEARCH TRACK WITH FOCUS ON A.I.) *2016-2019*

- Received **Texas Public Education Grants (TPEG)** 2018-19 for **excellent research record**
- Received directed study proposal from professor to invest maximum time in research topic due to strong knowledge of neural networks acquired mainly through MOOCs: cse231n from Stanford, Jeremy Howard's fast.ai, and Andrew Ng's deeplearning.ai

Lovely Professional University *Punjab, India*

B.S. IN COMPUTER SCIENCE *2010-2014*

- Received 80% scholarship for the entire program on the basis of state-level engineering examination (M.P. P.E.T.)
- Appointed by Executive Dean to develop and test enrollment portal, 'Honor's Guru' for efficient enrollment of students in classes