

# Vineeta Anand

anandvineeta92@gmail.com | +91-9616666465 | LinkedIn | GitHub

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## SUMMARY

Associate Software Engineer with 1.7 years of experience in system optimization and database management, and 1.2 years as a Banking Associate at Bank of Baroda managing FINACLE-based retail operations. Skilled in Python, Java, TensorFlow, PyTorch, and cloud technologies, with a strong foundation in scalable software engineering, customer-centric financial workflows, and ML-driven solutions.

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## EXPERIENCE

### Associate Software Engineer

Accenture Services Pvt. Ltd., India

Nov 2013 – Jul 2015

SAP Basis / Oracle / HP-UX

- Administered SAP NetWeaver and SAP Ariba landscapes on Oracle Database and HP-UX, improving system availability and performance.
- Performed client administration and SAP Transport Management, including kernel upgrades and SAP Notes implementation.
- Collaborated with cross-functional teams to analyze production issues and optimize ABAP-based components.
- Led rapid prototyping of internal tools aligned with business goals to enhance operational efficiency.

### Banking Associate

Bank of Baroda, India

Jun 2018 – Sep 2019

Retail Banking / FINACLE

- Managed daily banking operations, including customer transactions, account management, and loan processing using FINACLE.
- Ensured compliance with banking protocols and regulatory requirements, supporting accurate and efficient processing.
- Prepared daily reports and maintained financial records, improving service quality and customer satisfaction.

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## EDUCATION

### M.Tech. in Computer Science & Engineering

Motilal Nehru National Institute of Technology, Allahabad, India

Aug 2022 – Jul 2024

CPI: 8.5

### B.Tech. in Information Technology

Galgotias College of Engineering & Technology, Greater Noida, India

Jul 2009 – May 2013

72.48%

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## PROJECTS

### ShadowRec: Diversity-Aware Graph-Based Recommender System

Python, PyTorch, LightGCN

- Extended LightGCN with a shadow-based regularization term to jointly optimize recommendation relevance and catalog diversity.
- Modeled embedding-space distances as cosine/geometric “shadows” to promote novel yet relevant recommendations.

### Cross-domain Knowledge-Aware Recommender System

Python, NLP, Transformers, GNNs

- Built a recommender leveraging book and movie domains to enhance personalization via cross-domain knowledge transfer.
- Addressed data sparsity by sharing latent representations with GNNs and transformer-based encoders.

### Time-Critical Systems with Energy Harvesting

C++, Embedded, Real-time Scheduling

- Designed a scheduling algorithm with dynamic voltage scaling and checkpointing to tolerate single transient faults.
- Integrated energy harvesting models to sustain reliability under power constraints.

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## PUBLICATIONS

- “A Survey on Recommender Systems using Graph Neural Network”, ACM Transactions on Information Systems, 2024.
- “Tolerating Single Transient Fault in Time Critical System using Energy Harvesting”, EICC 2013.

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## TECHNICAL SKILLS

- **Languages:** Java, JavaScript, Python, C, C++, C#, PHP, SAP ABAP, HTML, CSS, XML, JSON.
- **Data & Databases:** MongoDB, MySQL, MS SQL Server, Oracle 10g.
- **Frameworks & Libraries:** React, Node.js, TensorFlow, Keras, PyTorch, Graph Neural Networks, LightGCN.
- **Tools & Platforms:** AWS, Docker, GitHub, Google Colab, Jupyter Notebook, Visual Studio.
- **Data & Analytics:** Pandas, NumPy, ML algorithms, AI/ML model implementation.
- **Software Engineering:** SDLC, Agile, responsive web design, full-stack development, cloud technologies, scalable systems, API optimization.

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## CERTIFICATIONS

- AWS Certified Cloud Practitioner, AWS, Jun 2025.
- Developing Web Applications with PHP & MySQL, NIIT, Jan 2012.
- Oracle Database 10g: Introduction to SQL, NIIT, Jan 2011.
- Developing Web Applications using ASP.NET, NIIT, Jan 2010.