

# PDF Summary API 사용 가이드

## ☒ 가상환경 활성화 및 서버 프로세스 확인

```
source .venv/bin/activate
ps aux | grep uvicorn
```

## 요약 요청 (Summary 생성)

### 0. Attention is All you Need

```
curl -X POST http://localhost:8000/summary \
  -H "Content-Type: application/json" \
  -d '{
    "file_id": "paper-01",
    "pdf_url": "https://arxiv.org/pdf/1706.03762.pdf"
  }'
```

### 1. Transformer (NLP) - "Attention is All You Need"

```
curl -X POST http://localhost:8000/summary \
  -H "Content-Type: application/json" \
  -d '{"file_id": "nlp-transformer", "pdf_url":
    "https://arxiv.org/pdf/1706.03762.pdf"}'
```

### 2. AlphaGo (Reinforcement Learning + MCTS + Deep Learning)

```
curl -X POST http://localhost:8000/summary \
  -H "Content-Type: application/json" \
  -d '{"file_id": "nlp-transformer", "pdf_url":
    "https://arxiv.org/pdf/1706.03762.pdf"}'
```

### 3. GCN (Graph Neural Networks) - Semi-supervised classification with GCN

```
curl -X POST http://localhost:8000/summary \
  -H "Content-Type: application/json" \
  -d '{"file_id": "gcn-graph", "pdf_url": "https://arxiv.org/pdf/1609.02907.pdf"}'
```

## 4. Stable Diffusion (Text-to-Image Generation)

```
curl -X POST http://localhost:8000/summary \  
-H "Content-Type: application/json" \  
-d '{"file_id": "gen-stablediff", "pdf_url":  
"https://arxiv.org/pdf/2112.10752.pdf"}'
```

## 5. Segment Anything Model (Computer Vision, Foundation Model)

```
curl -X POST http://localhost:8000/summary \  
-H "Content-Type: application/json" \  
-d '{"file_id": "cv-sam", "pdf_url": "https://arxiv.org/pdf/2304.02643.pdf"}'
```

## 6. DINOv2 (Self-supervised Learning for Vision)

```
curl -X POST http://localhost:8000/summary \  
-H "Content-Type: application/json" \  
-d '{"file_id": "cv-dinov2", "pdf_url": "https://arxiv.org/pdf/2304.07193.pdf"}'
```

## 7. Semiconductor

```
curl -X POST http://localhost:8000/summary \  
-H "Content-Type: application/json" \  
-d '{  
  "file_id": "semiconductor-memory",  
  "pdf_url": "https://arxiv.org/pdf/1905.06962.pdf"  
}'
```

## 8. Quantum Computing

```
curl -X POST http://localhost:8000/summary \  
-H "Content-Type: application/json" \  
-d '{  
  "file_id": "quantum-computing-review",  
  "pdf_url": "https://arxiv.org/pdf/1903.04500.pdf"  
}'
```

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## 벡터 (VectorDB) 관리 기능

### A. Vector 조회

### 1. 벡터 통계 확인

저장된 file\_id 리스트 확인

```
curl -X GET http://localhost:8000/vector/statistics
```

### 2. 벡터 존재 확인

저장된 file\_id 리스트 확인

```
curl -X GET http://localhost:8000/vector/check/quantum-computing-review
```

### 3. 날짜별 벡터 조회

날짜별 저장된 벡터 조회 가능

```
curl -X GET "http://localhost:8000/vector/by-date?date=2025-07-14"
```

---

## B. Vector 삭제

### 1. 벡터 수동 정리 (캐시에 없는 벡터 삭제)

```
curl -X DELETE http://localhost:8000/vector/cleanup-unused
```

### 2. 벡터 특정 파일 수동 삭제

```
curl -X DELETE http://localhost:8000/vector/delete/semiconductor-memory
```

### 3. 벡터 전체 데이터 삭제

```
curl -X DELETE http://localhost:8000/vector/all
```

---

## C. Vector 로그 관리

### 1. 벡터 삭제 로그 날짜별 조회

```
curl -X GET "http://localhost:8000/vector/cleanup-log?date=2025-07-14"
```

### 2. 벡터 삭제 로그 삭제

```
curl -X DELETE "http://localhost:8000/vector/cleanup-log?date=2025-07-14"
```

---

## 캐시 (Redis) 관리 기능

### A. Cache 조회

#### 1. 캐시 통계 확인

요약본 캐시에 저장된 file\_id 개수 + 메모리 사용량 확인

```
curl -X GET http://localhost:8000/cache/statistics
```

#### 2. 캐시 존재 확인

```
curl -X GET http://localhost:8000/cache/check/quantum-computing-review
```

#### 3. 날짜별 캐시 조회

```
curl -X GET http://localhost:8000/cache/summaries/2025-07-14
```

---

### B. Cache 삭제

#### 1. TTL 지난 캐시 수동 정리

```
curl -X DELETE http://localhost:8000/cache/cleanup
```

#### 2. 캐시 특정 파일 수동 삭제

```
curl -X DELETE http://localhost:8000/cache/summary/quantum-computing-review
```

#### 3. 캐시 전체 데이터 삭제

```
curl -X DELETE http://localhost:8000/cache/all
```

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### C. Cache 로그 관리

### 1. 캐시 삭제 로그 날짜별 조회

```
curl "http://localhost:8000/cache/deletion-log?date=2025-07-14"
```

### 2. 캐시 메타데이터 확인 ( 현재 Internal Server Error)

```
curl -X GET http://localhost:8000/cache/metadata/quantum-computing-review
```

### 3. 캐시 삭제 로그 삭제

```
curl -X DELETE "http://localhost:8000/cache/deletion-log?date=2025-07-14"
```

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## 캐시 & 벡터 전체 삭제

### 1. **Vector & 캐시** 전체 데이터 삭제 (메타데이터 포함)

```
curl -X DELETE http://localhost:8000/system/all
```